



US Army Corps  
of Engineers  
Waterways Experiment  
Station

Technical Report HL-94-1  
July 1994

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# Demonstration Erosion Control Project Monitoring Program

## Fiscal Year 1993 Report

### Volume IV: Appendix C Otoucalofa Creek Watershed Profiles and Cross Sections

by David D. Abraham, Wendy L. Johnson

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# Demonstration Erosion Control Project Monitoring Program

## Fiscal Year 1993 Report

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by David D. Abraham, Wendy L. Johnson

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Waterways Experiment Station  
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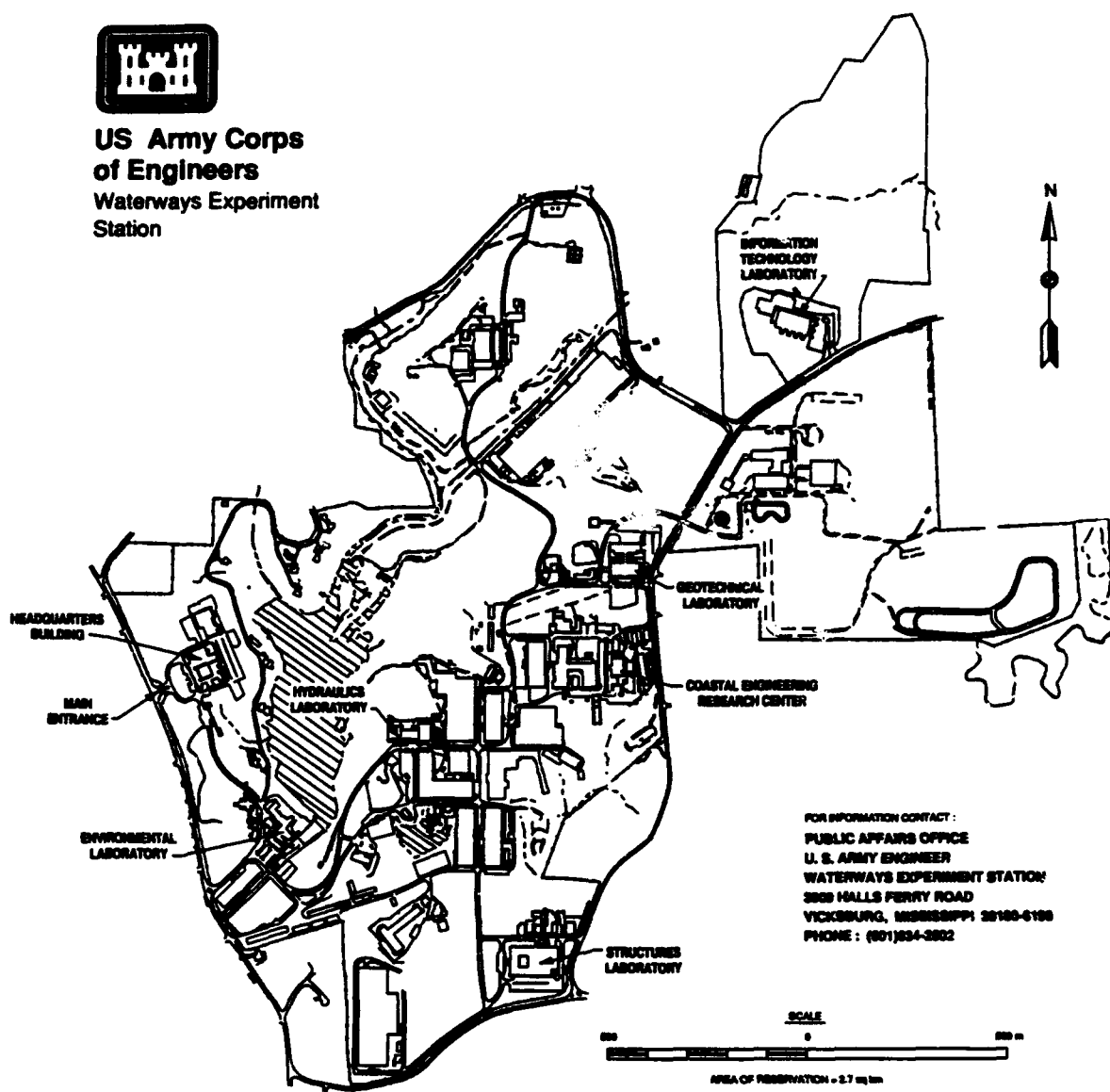
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**US Army Corps  
of Engineers**  
Waterways Experiment  
Station



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# Appendix C

## Otoucalofa Creek Watershed Profiles and Cross Sections

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### Channel Profiles

Comparisons of channel profiles in the Otoucalofa Creek watershed from 1985 and 1992 are shown in Plates C1-C30. The following channels are represented in these profile plots:

Creek	Plate
Otoucalofa	C1-C5
Susie Perry	C6
West Johnson	C7
Johnson	C8
Town	C9
Tributary 16A	C10
Tributary 15C	C11
Simmons	C12
Hitchcock	C13
Greasy	C14
Moore	C15
Gordon	C16
Main/East Spring	C17
South Spring	C18
Mill	C19
Smith	C20
(Continued)	

Creek	Plate
Hanna	C21
Tributary 12A	C22
Sarter	C23
West Sarter	C24
Paris Town	C25
Dickey	C26
Smith	C27
Shippy	C28
Tributary 2A	C29
Tributary 1B	C30

## Channel Profiles

The channel profiles from 1985 and 1992 were digitized. Channel stationing began at the mouth of each channel and increased in the upstream direction along the channel thalweg. No survey baseline was used on either of the two surveys, and channel stationing was dependent on the measured distance along the thalweg. Since the thalweg tends to shift over time, the measured distances were often inconsistent between the two surveys. Locations of the bridges, culverts, grade control structures, tributary intersections, and other channel features noted on the surveys were used to fit the stationing from the 1992 survey to the 1985 stationing. The two channel profiles were then plotted to the 1985 stationing. Areas of significant channel aggradation or degradation can be located using these plots.

## Channel Cross Sections

Comparisons of channel cross sections in the Otoucalofa Creek watershed from 1985 and 1992 are shown in Plates C31-C268. The following channels are represented in these cross-section plots:

Creek	Plate
Otoucalofa	C31-C102
Susie Perry	C103-C110
West Johnson	C111-C114
Johnson	C115-C131
(Continued)	

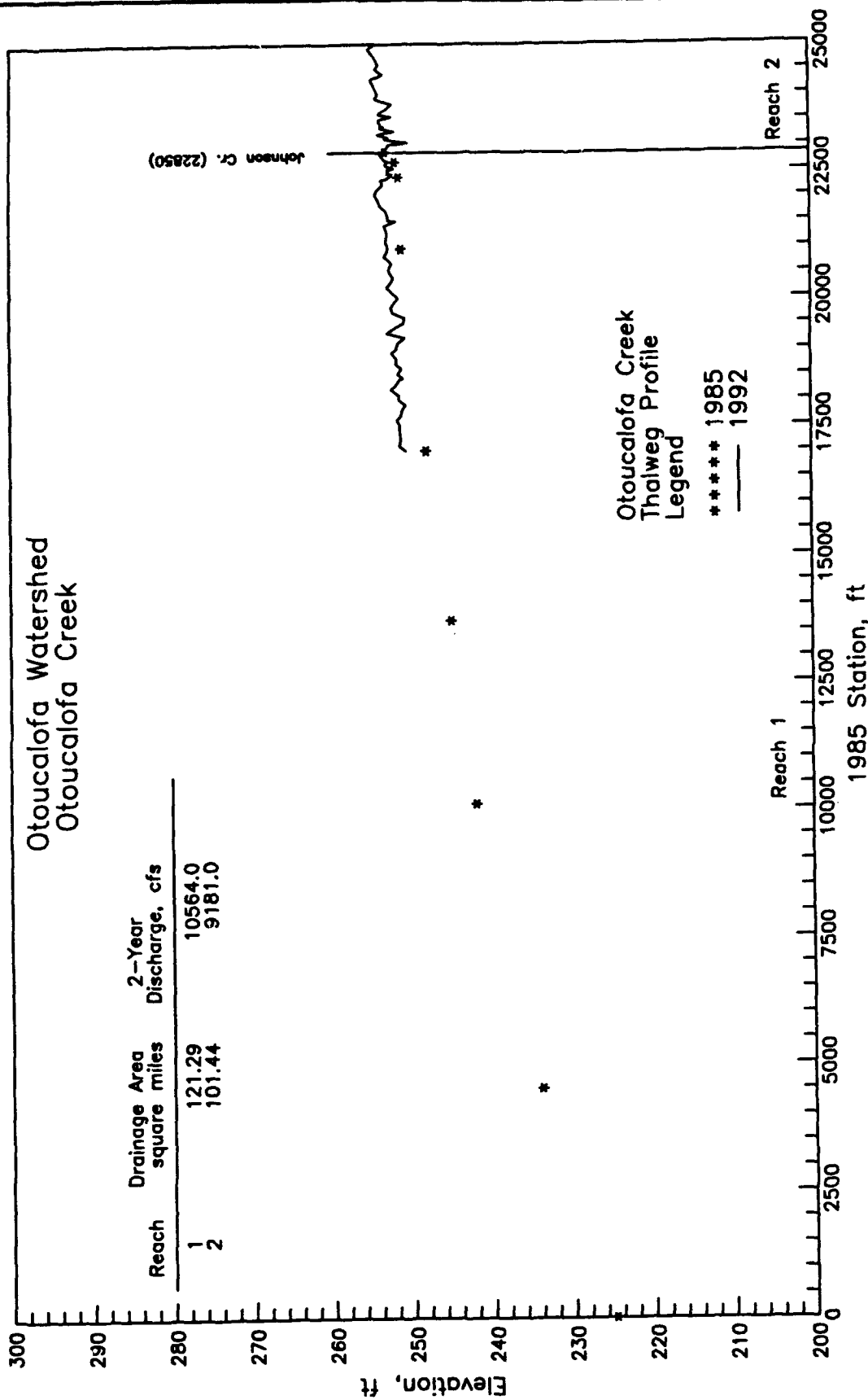
Creek	Plate
Town	C132-C137
Tributary 16A	C138-C144
Tributary 15C	C145-C150
Simmons	C151-C158
Hitchcock	C159-C161
Greasy	C162-C175
Moore	C176-C179
Gordon	C180-C186
Main Spring	C187-C193
South Spring	C194-C195
Mill	C196-C203
Smith	C204-C208
Hanna	C209-C211
Tributary 12A	C212-C214
Sarter	C215-C230
West Sarter	C231-C233
Paris Town	C234-C238
Dickey	C239-C245
Smith	C246-C251
Shippy	C252-C259
Tributary 2A	C260-C263
Tributary 1B	C264-C269

## Channel Cross Sections

Channel cross sections from 1992 were plotted with the same cross sections from 1985. Where possible, the 1992 cross sections had been surveyed at the same location as the 1985 cross sections. The 1985 cross sections and 1992 cross sections were digitized for input into HEC-2. The data were then manipulated into a paired data form that was put into DSS files. A DSS file was made for each watershed. Additional cross sections were surveyed in 1992 although several of them were surveyed at different locations from those of 1985. Cross sections from 1985 were then matched with the corresponding sections from 1992 and plotted. The cross-section station was determined from the channel profile; therefore, the station number may have changed even though the location did not.

# Otoucalofa Watershed Otoucalofa Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	121.29	10564.0
2	101.44	9181.0





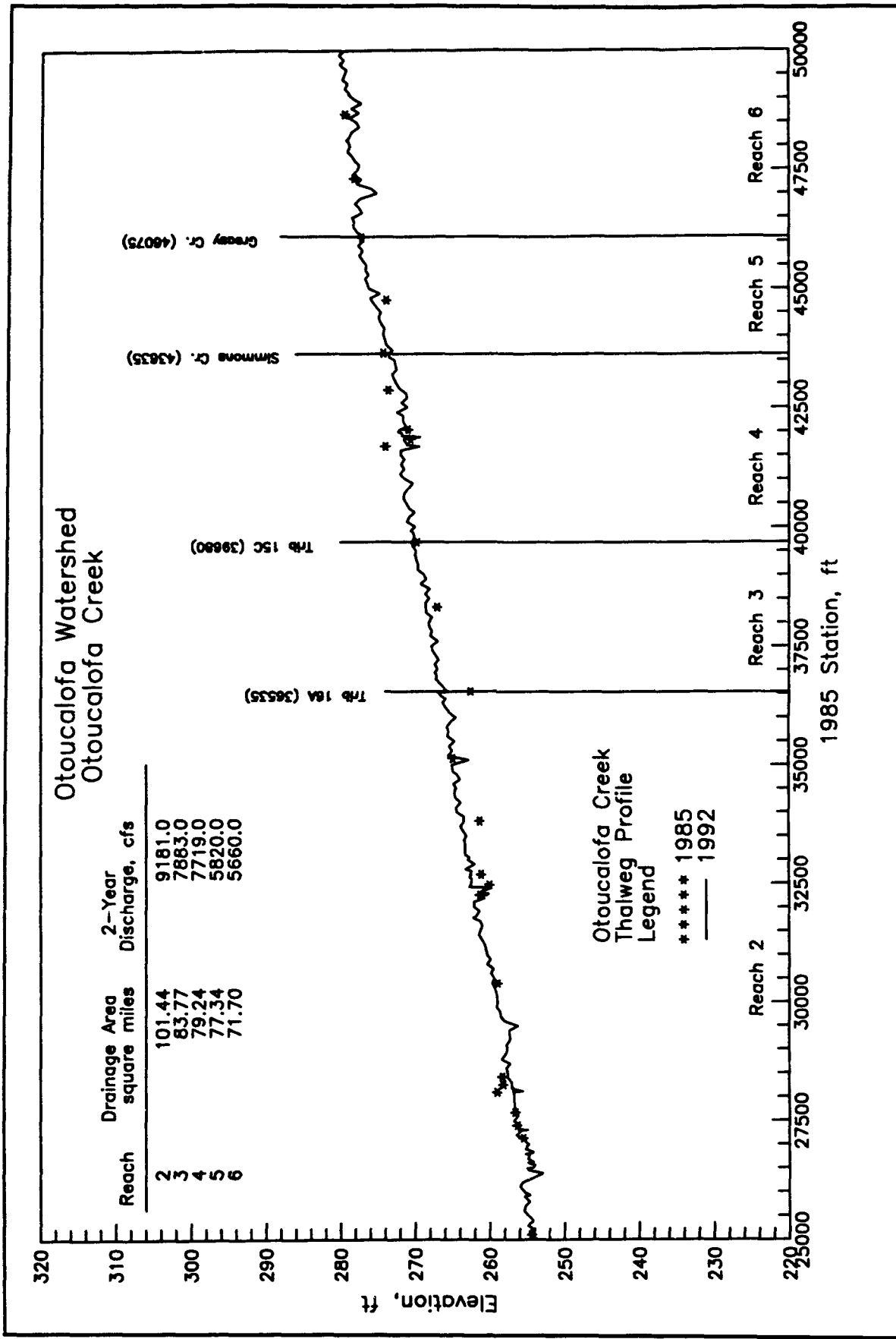
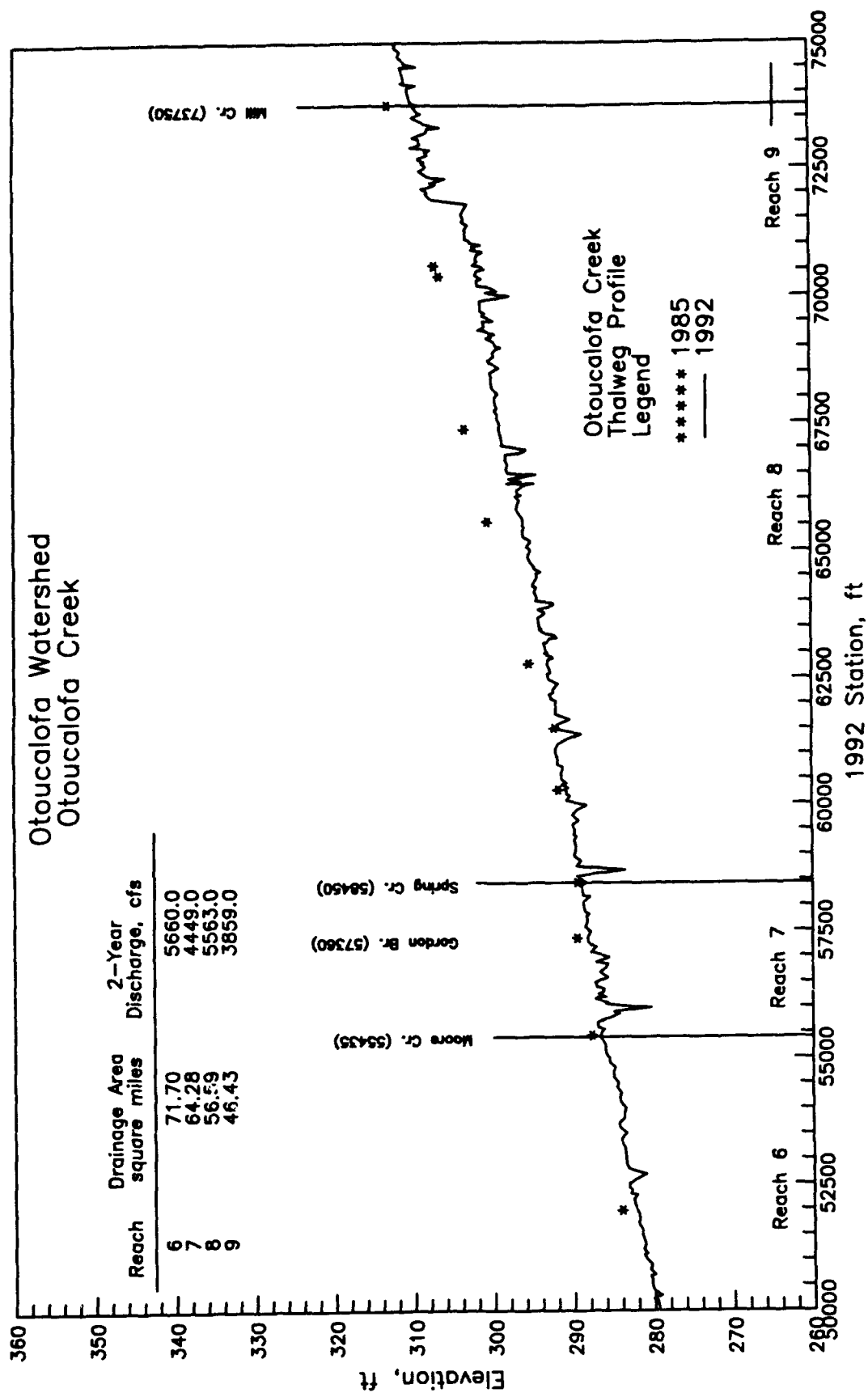


Plate C2

# Otocalofa Watershed Otocalofa Creek



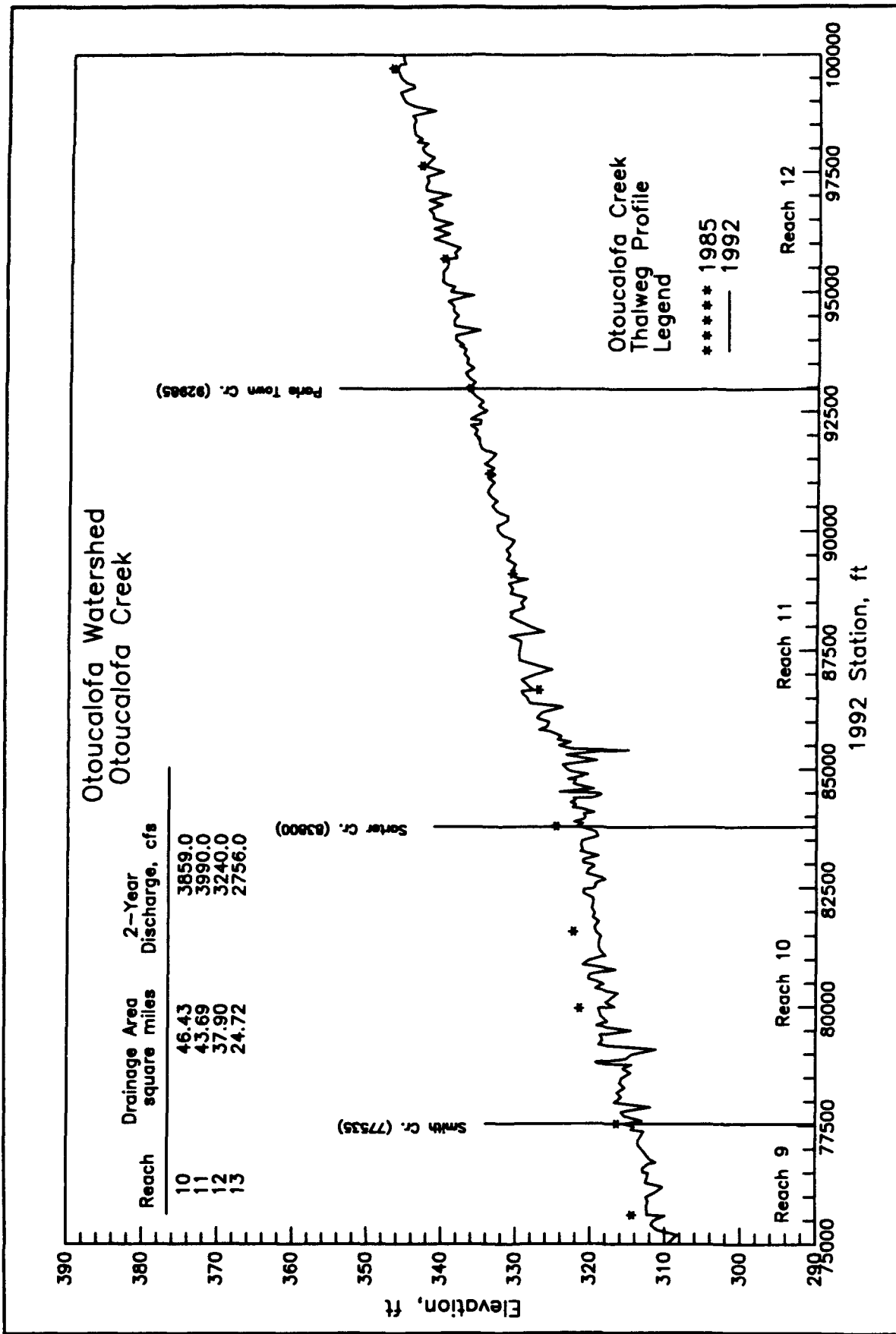
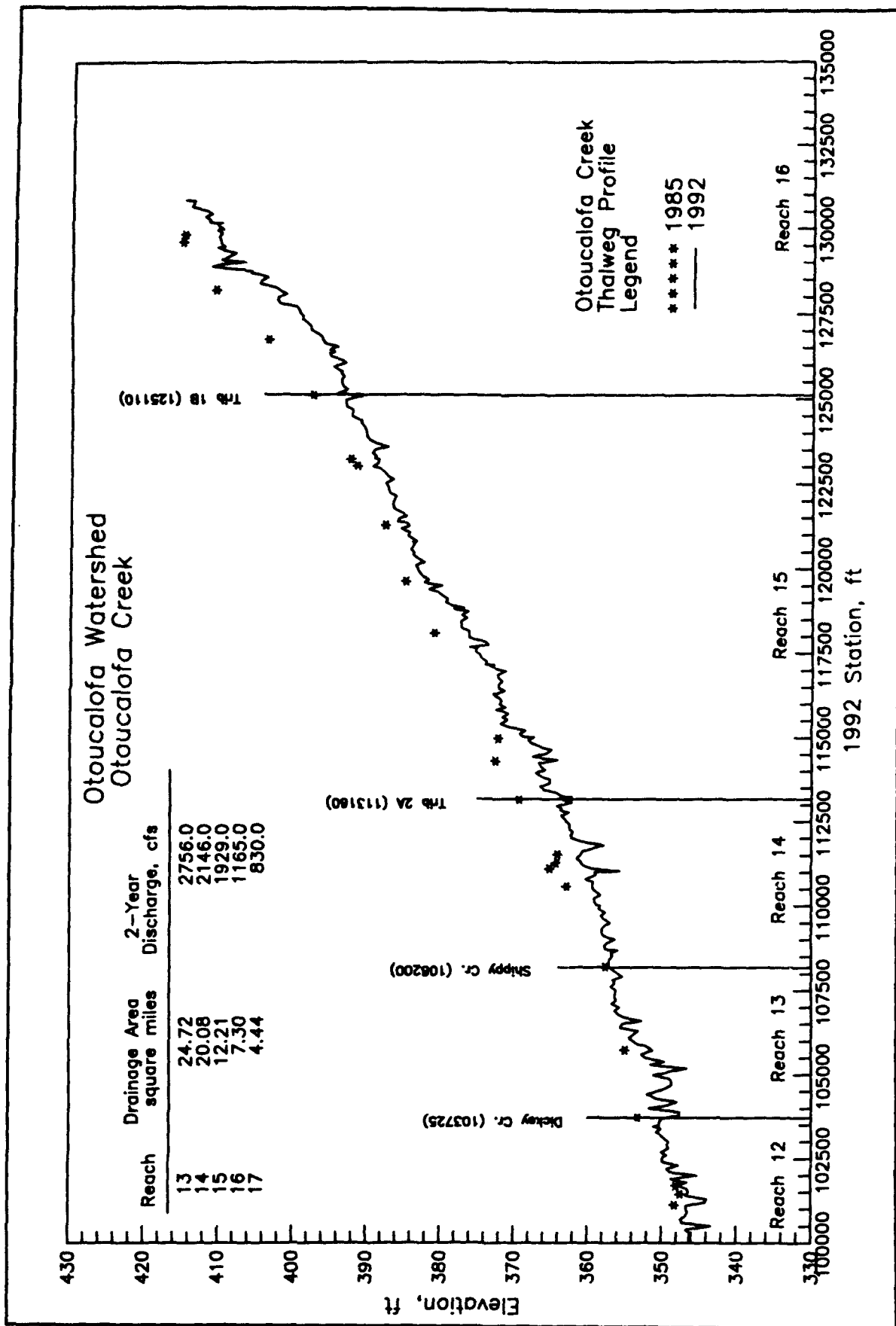


Plate C4



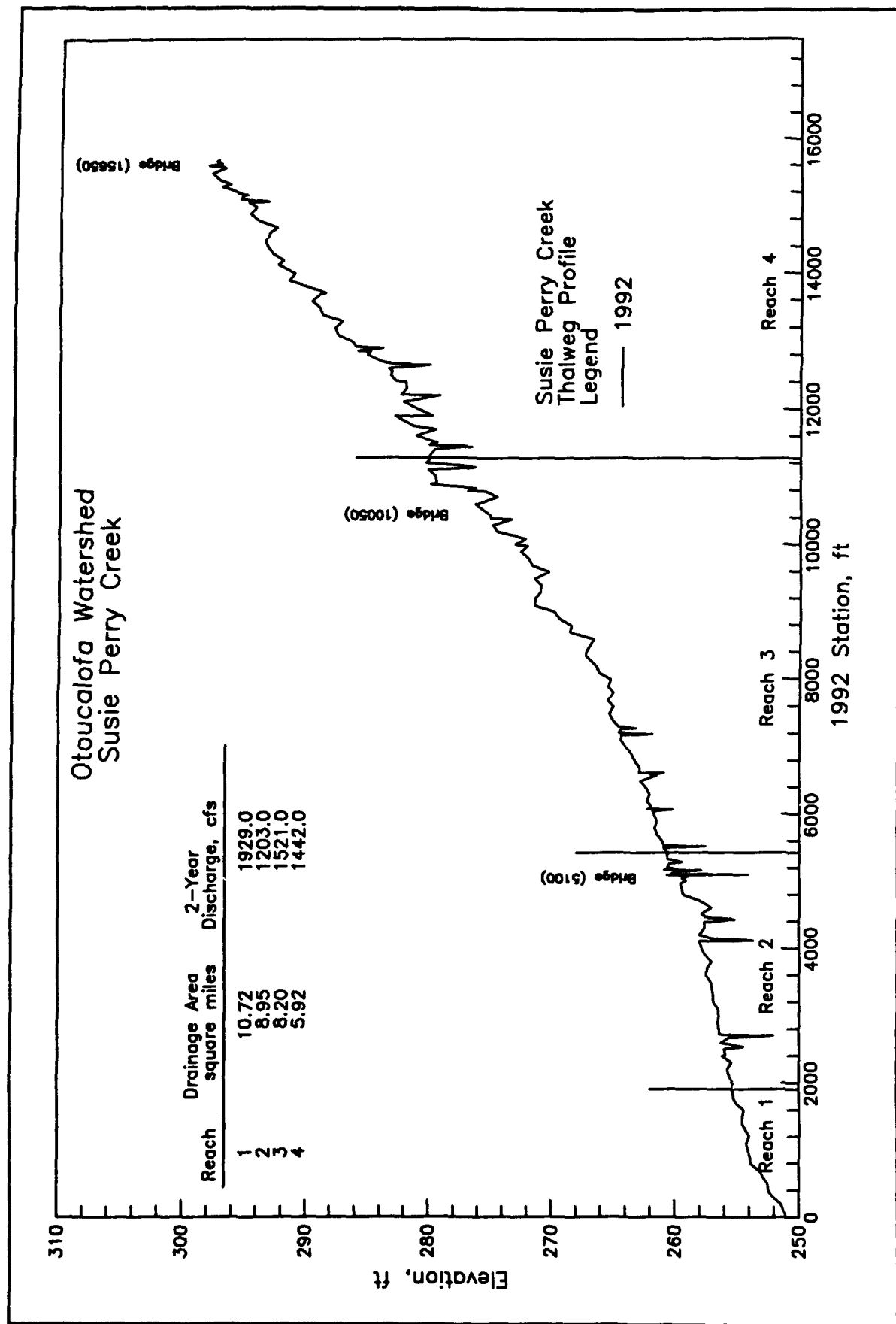
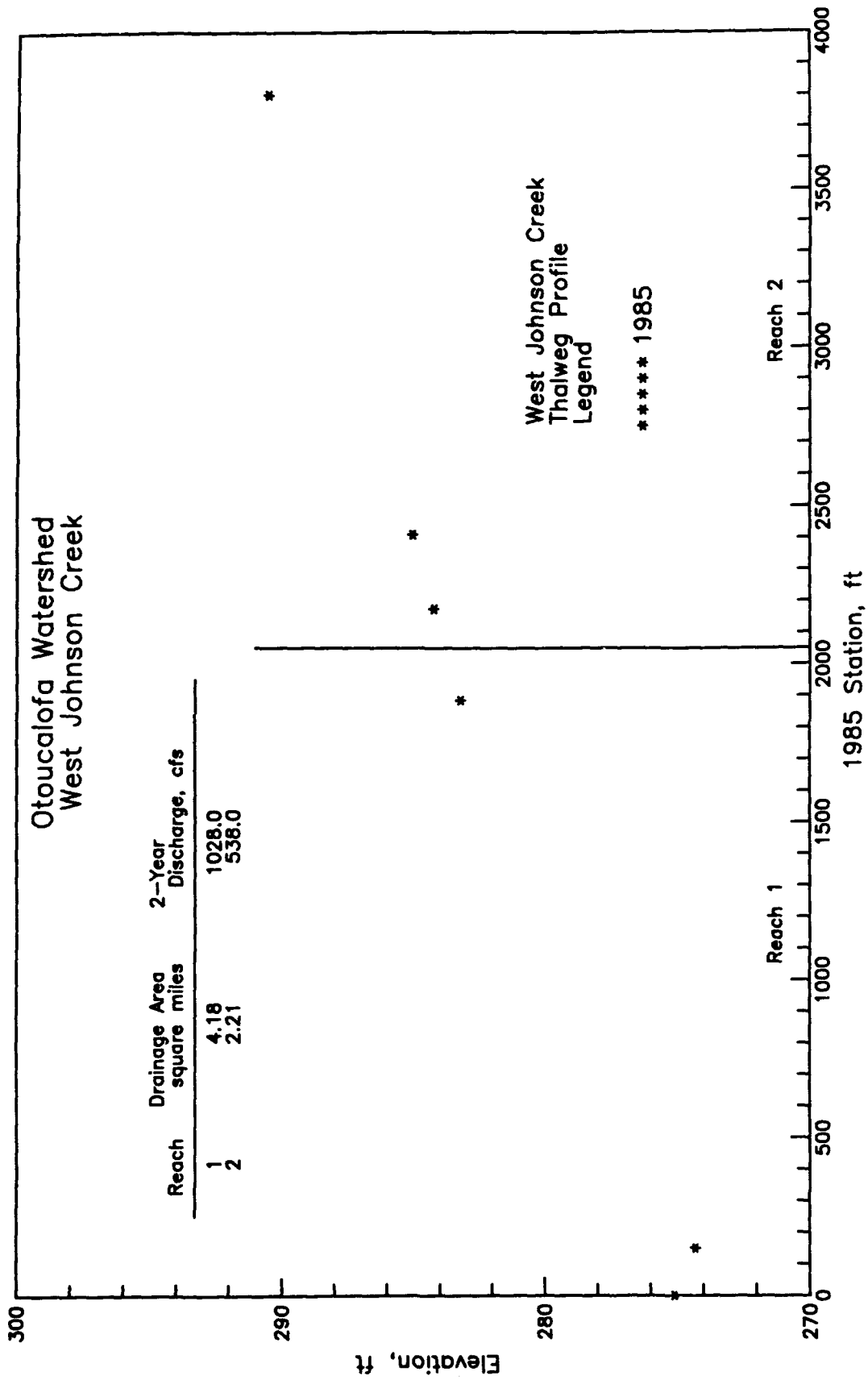


Plate C6

# Otoucalofa Watershed West Johnson Creek

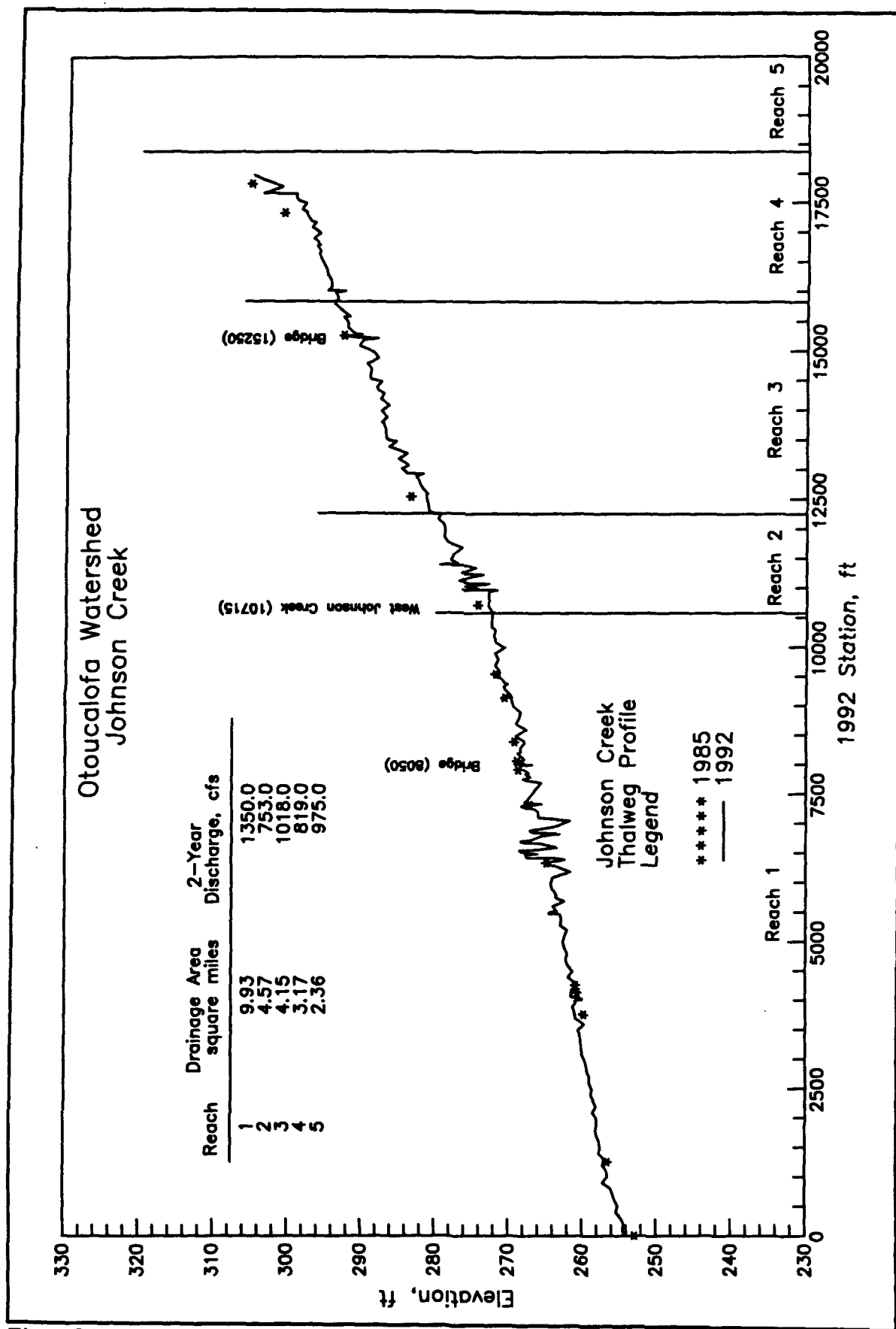
Reach	Drainage Area square miles	2-Year Discharge, cfs
1	4.18	1028.0
2	2.21	538.0



West Johnson Creek  
Thalweg Profile  
Legend

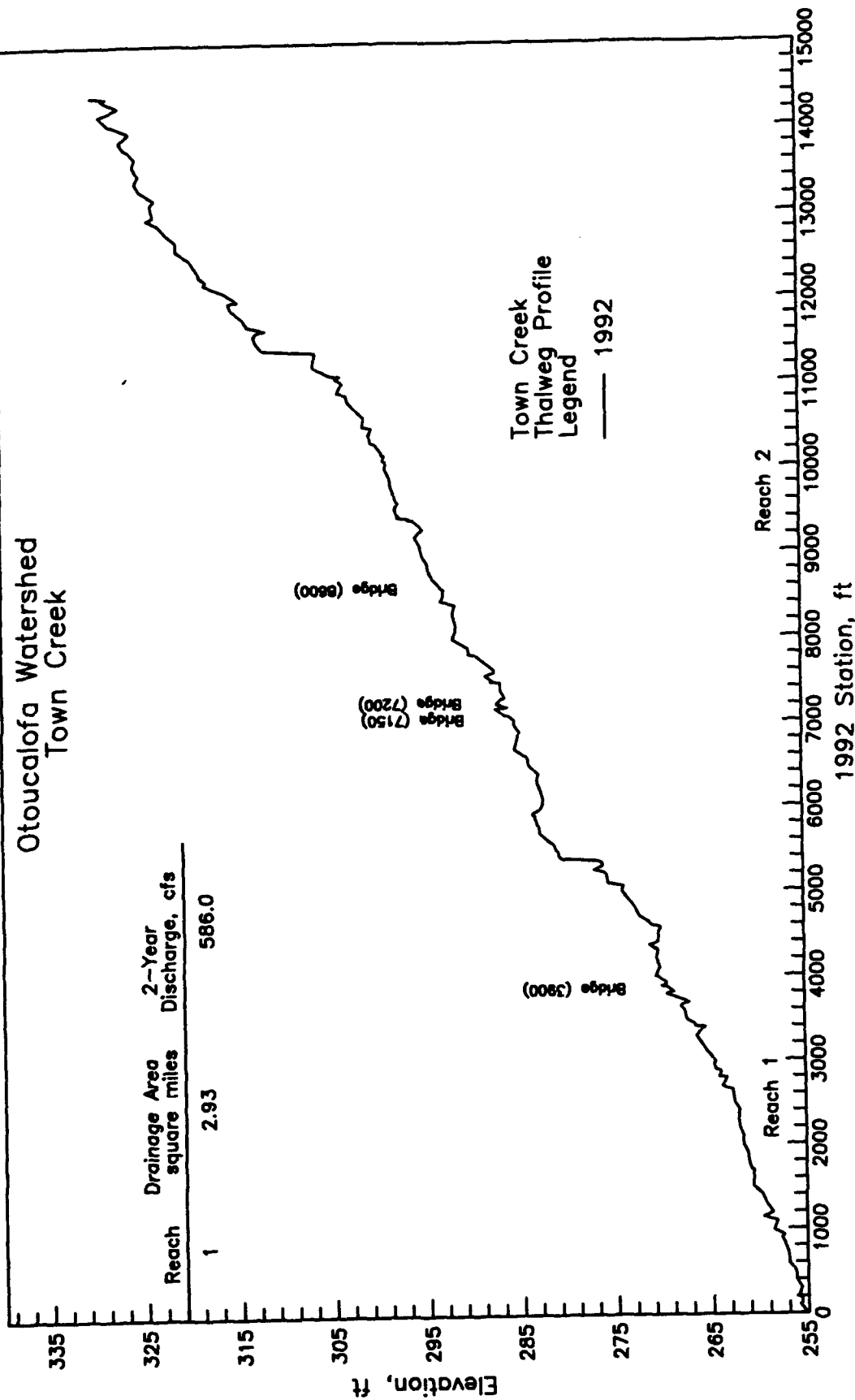
\*\*\*\*\* 1985

Plate C8



# Otocalofa Watershed Town Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.93	586.0





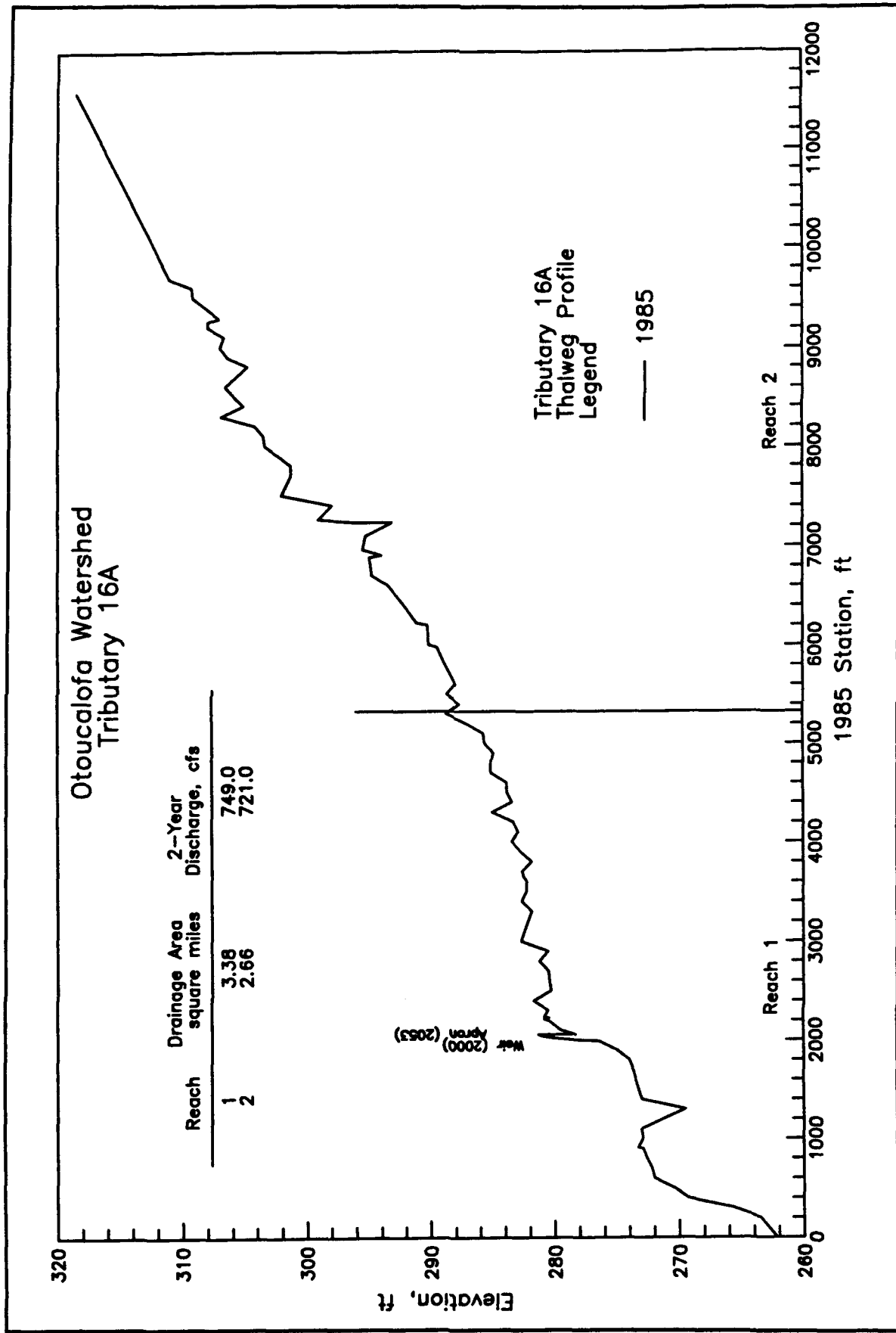
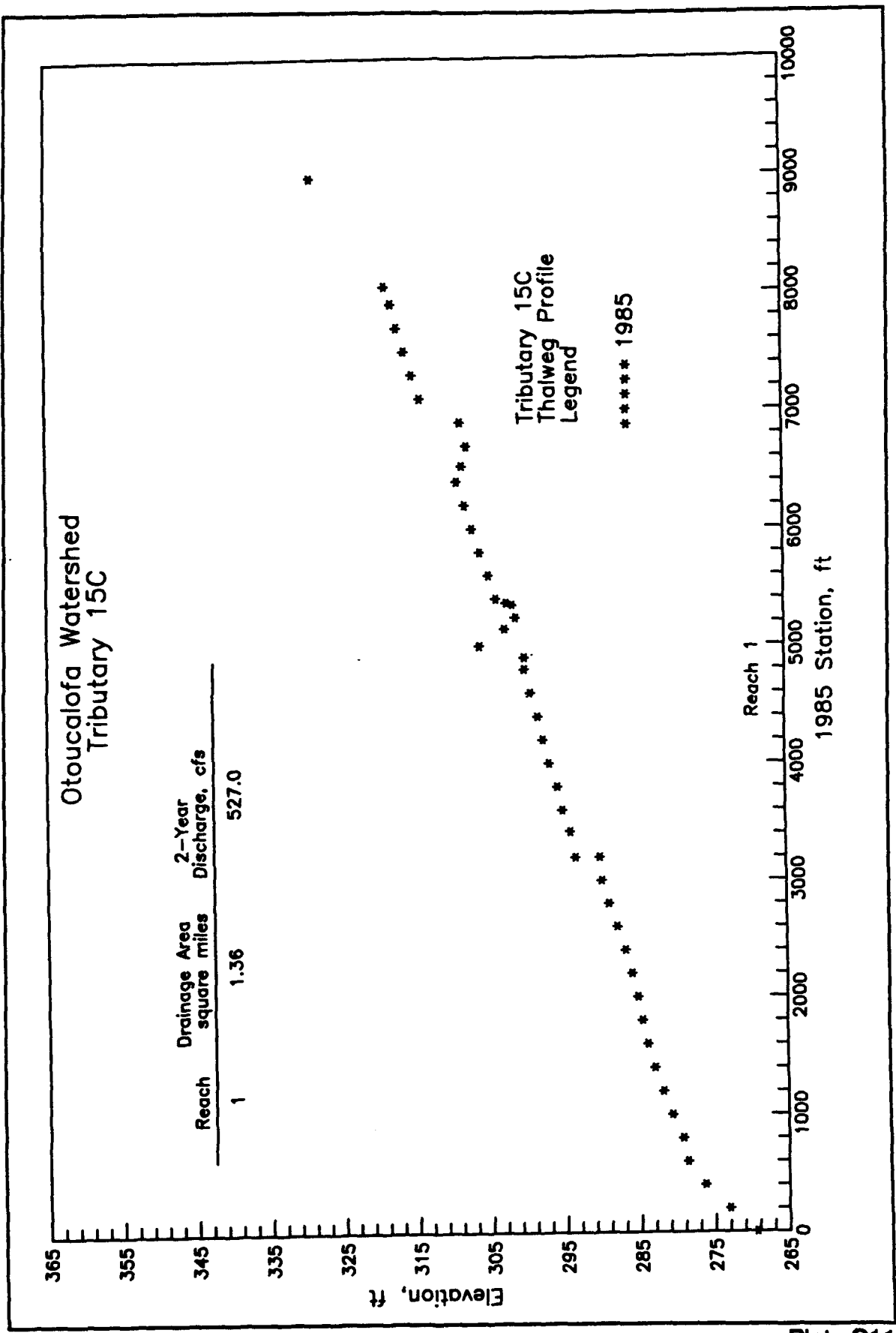


Plate C10



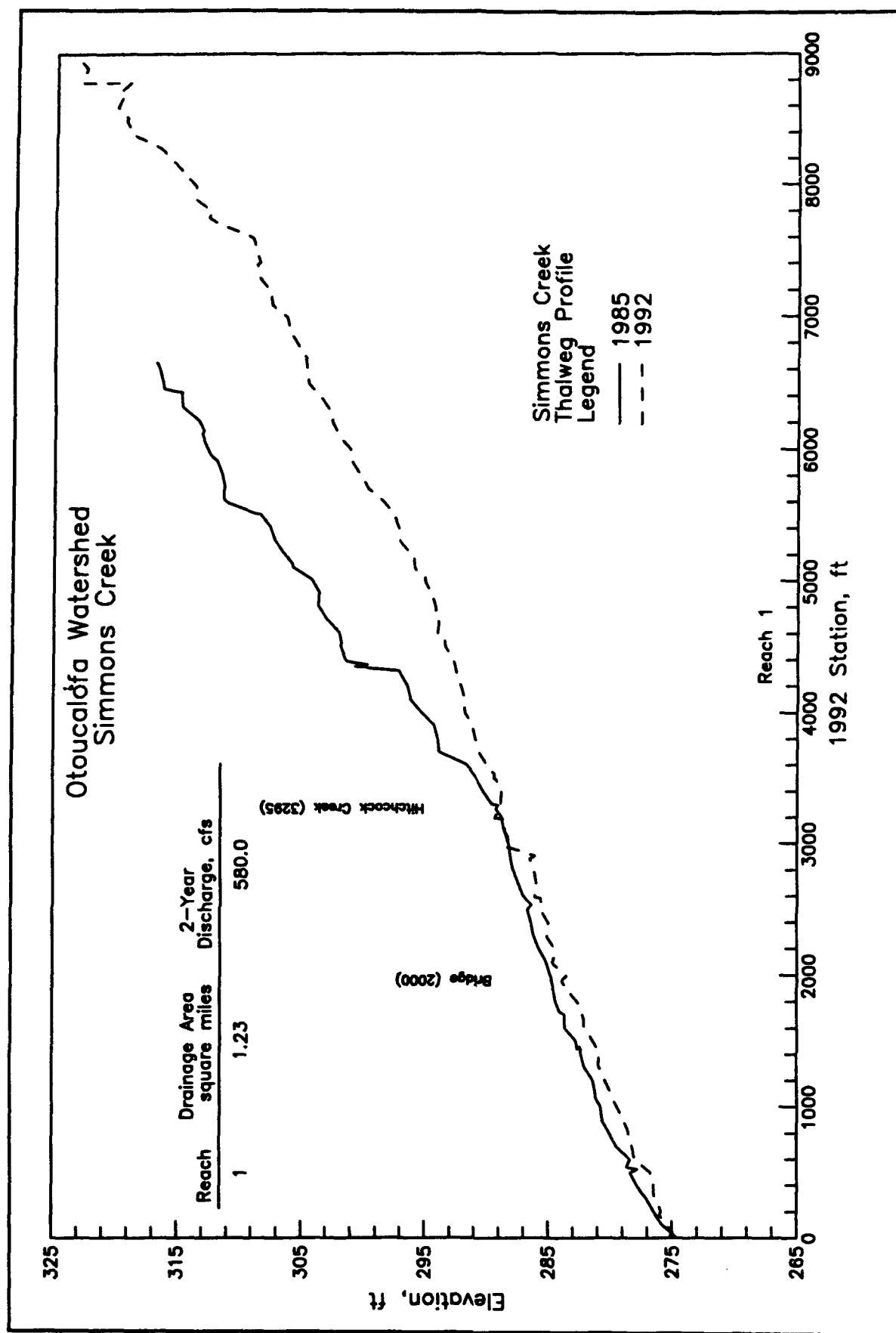


Plate C12

# Otocalofa Watershed Hitchcock Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	4.19	791.0
2	3.94	1267.0
3	2.20	
4	1.40	

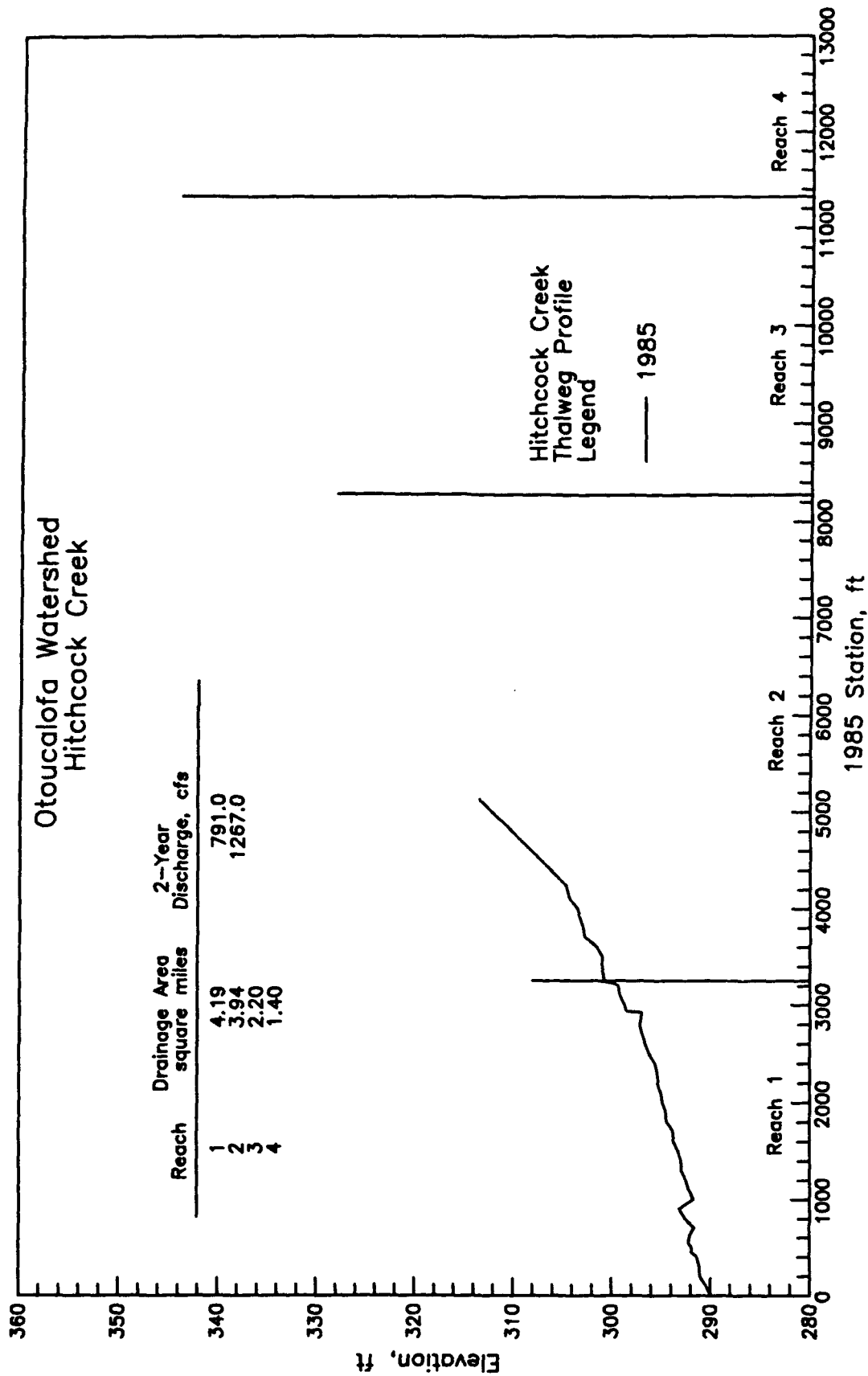
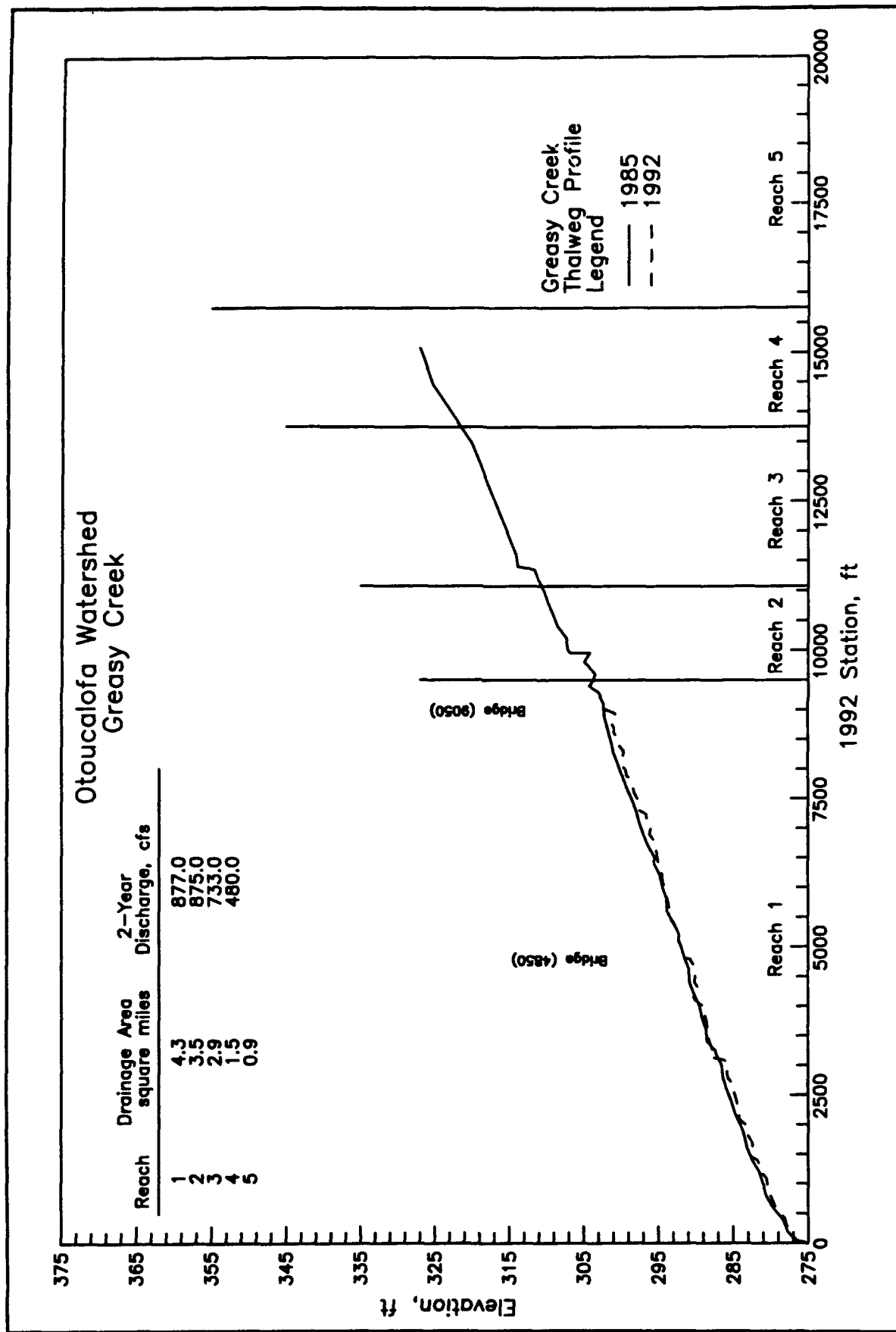


Plate C14



# Otocalofa Watershed Moore Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	3.15	713.0
2	2.51	616.0
3	0.71	

Bridge (3900)

Moore Creek  
Thalweg Profile  
Legend

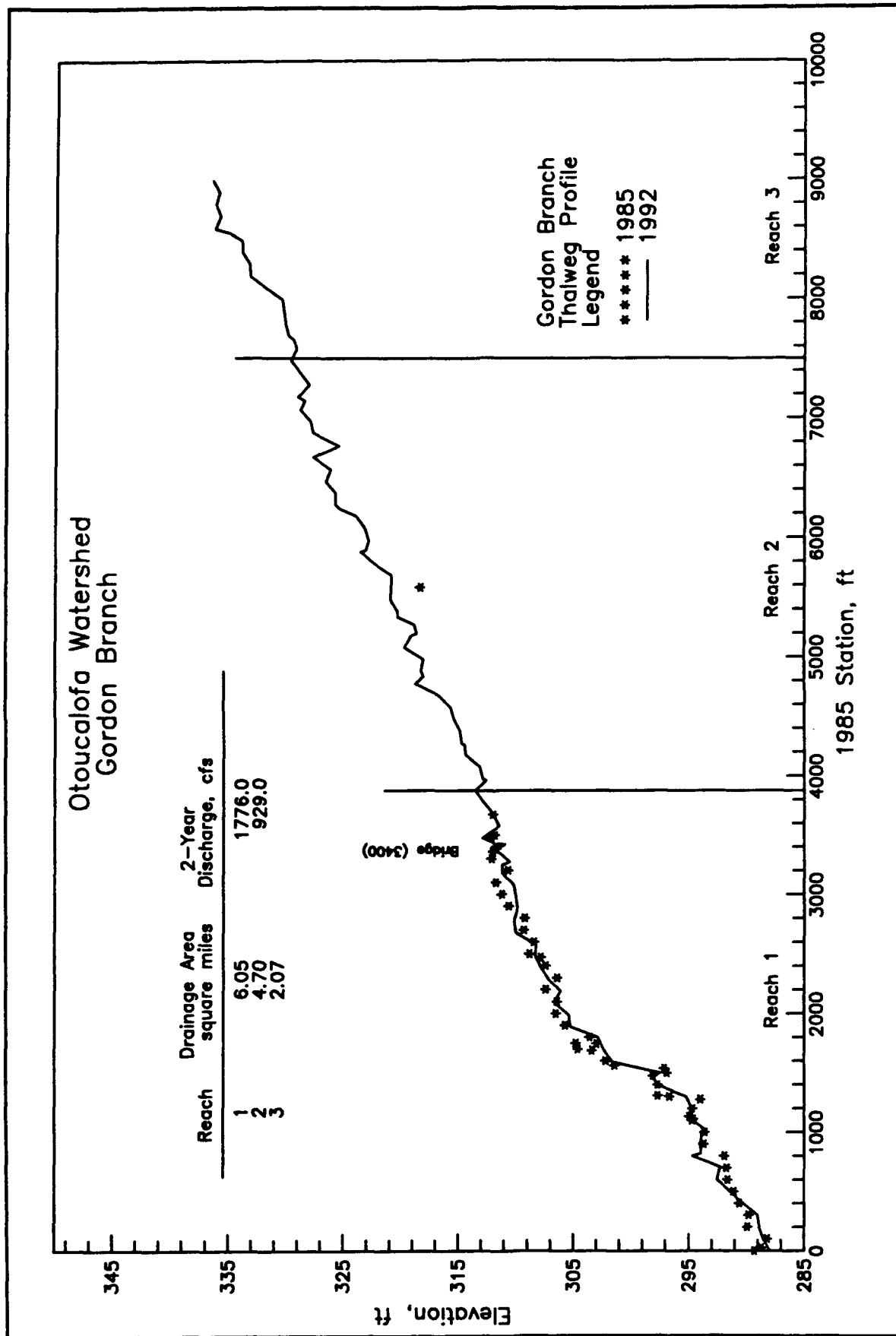
\*\*\*\*\* 1985  
— 1992

Reach 2

Reach 1

Reach 3

1985 Station, ft



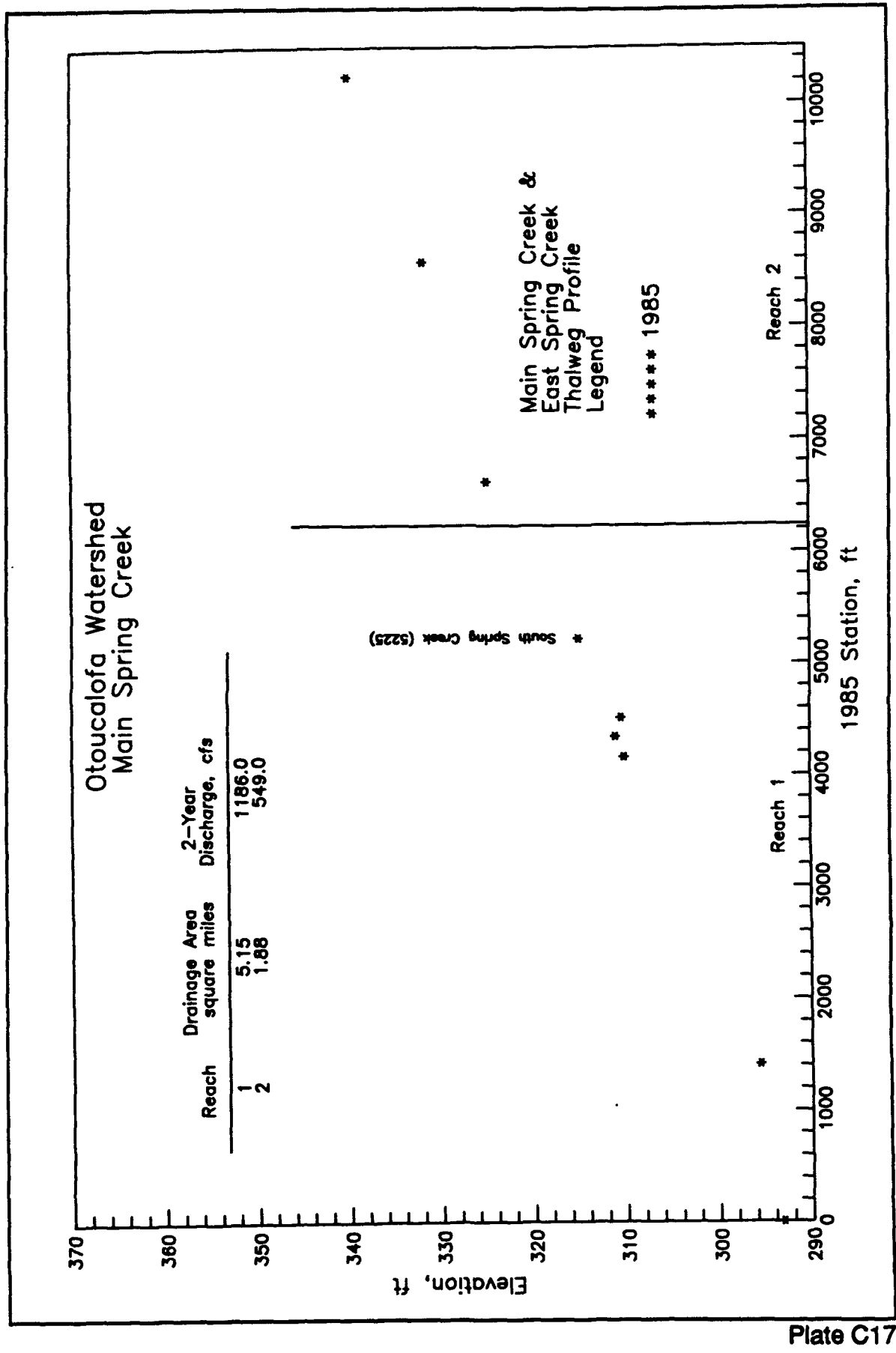
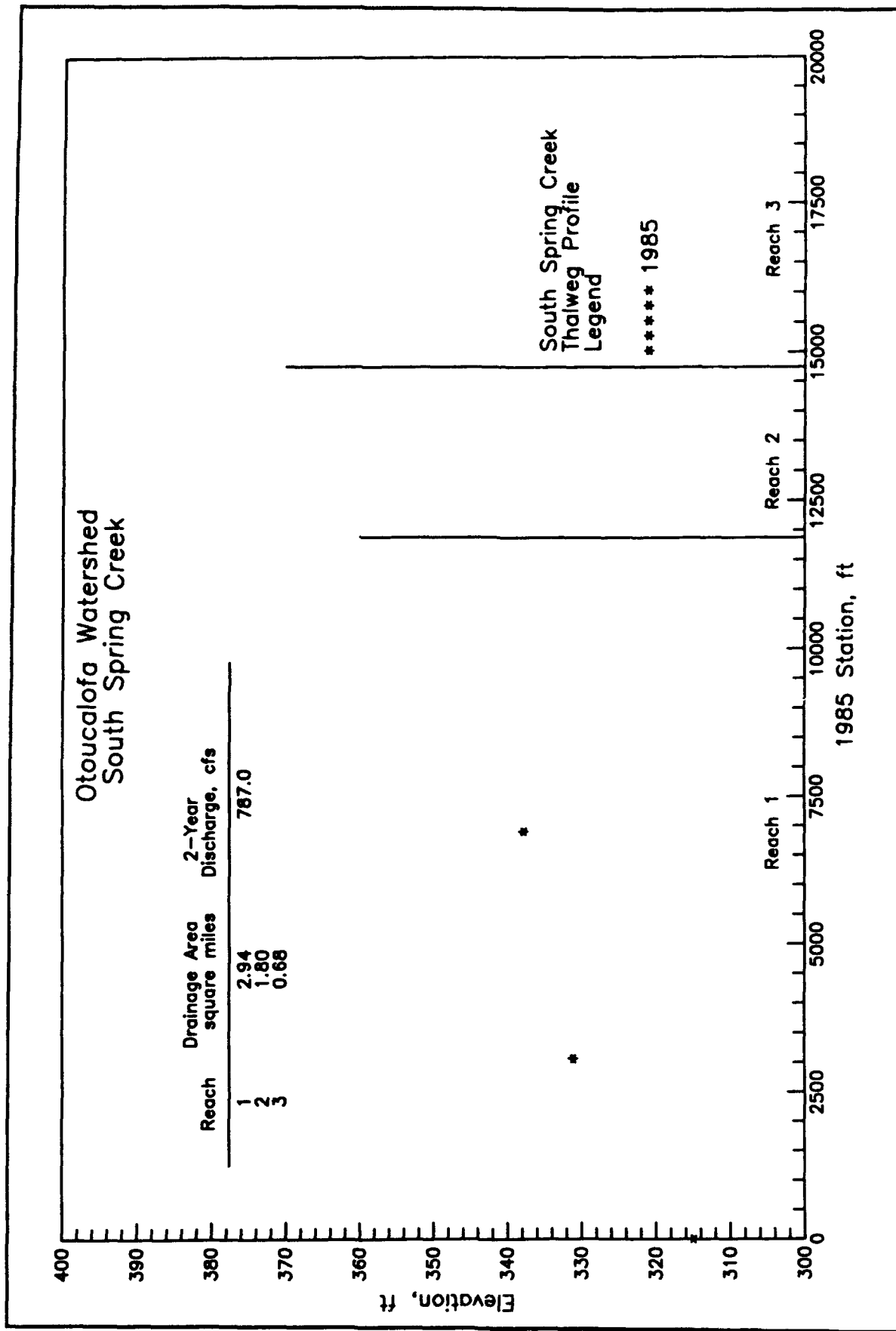
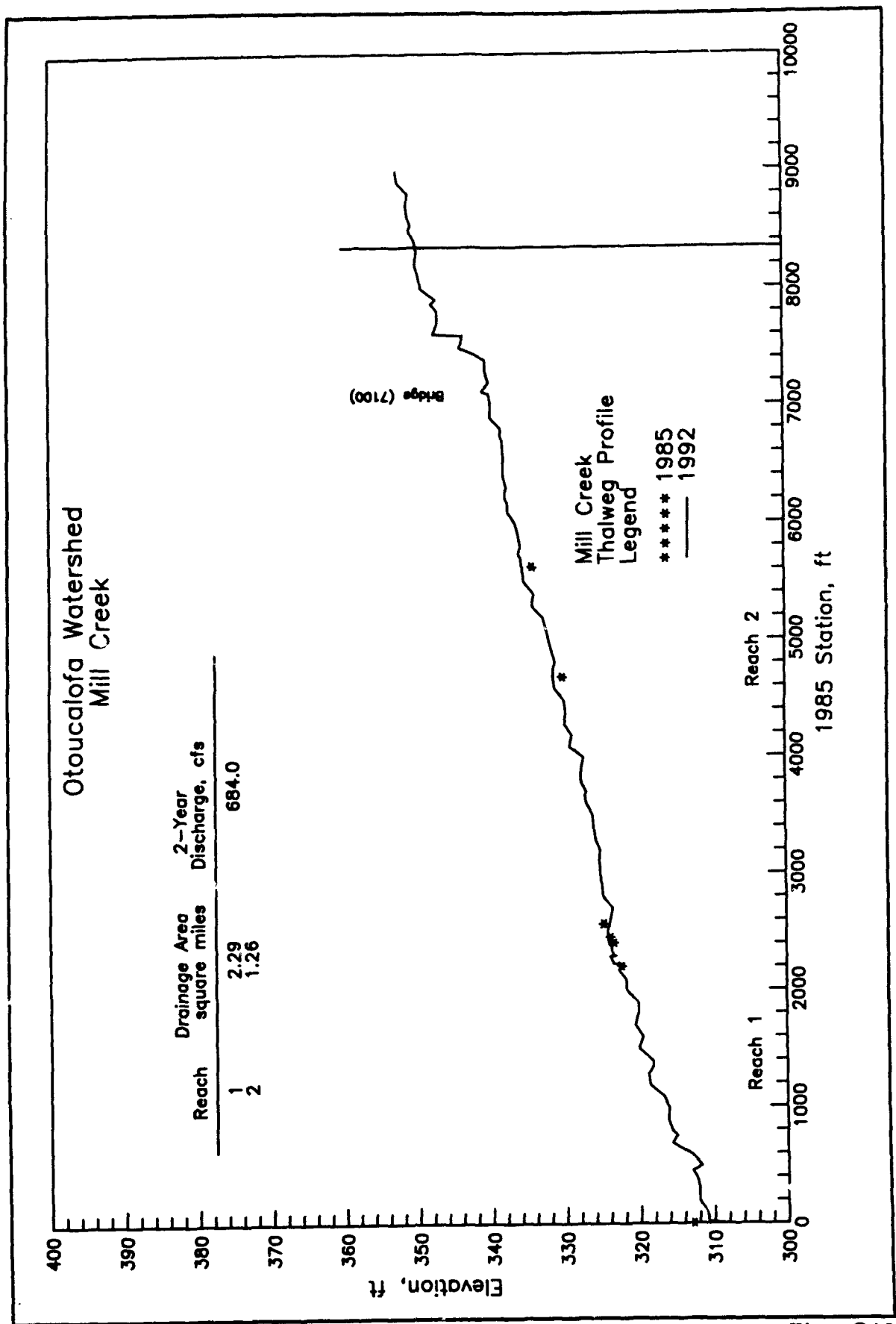
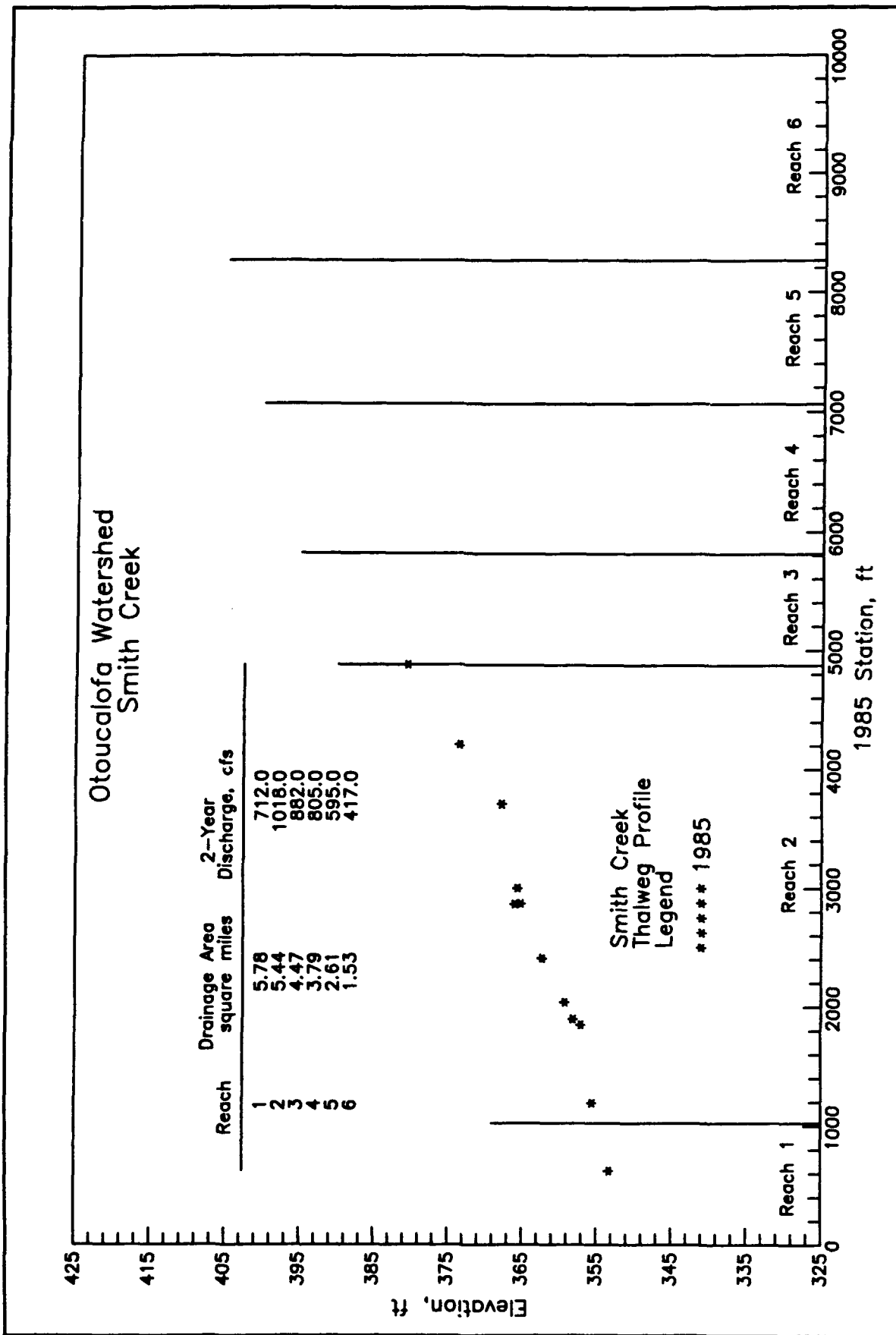


Plate C17









# Otocalofa Watershed Hanna Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.44	503.0
2	1.53	
3	1.32	

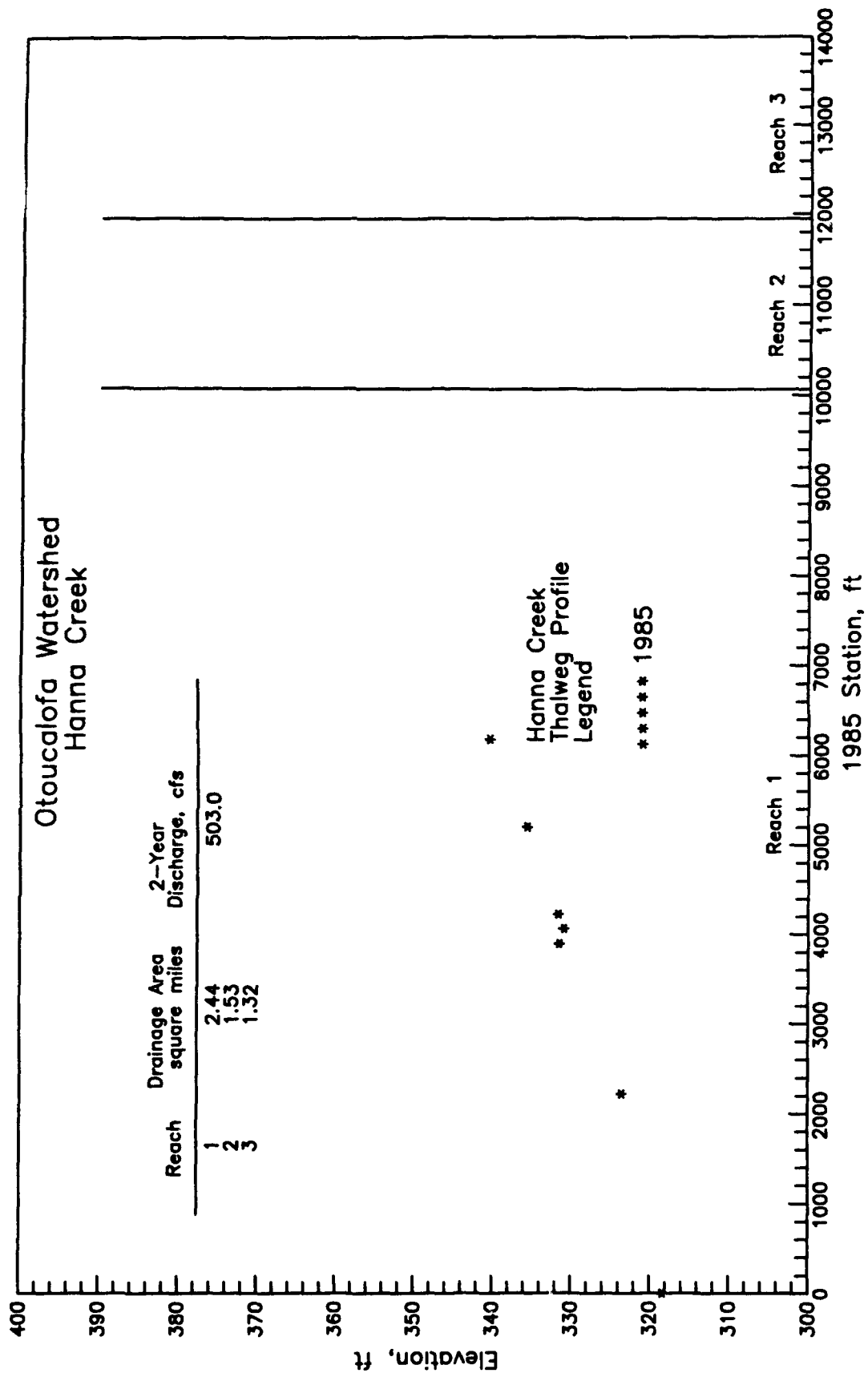
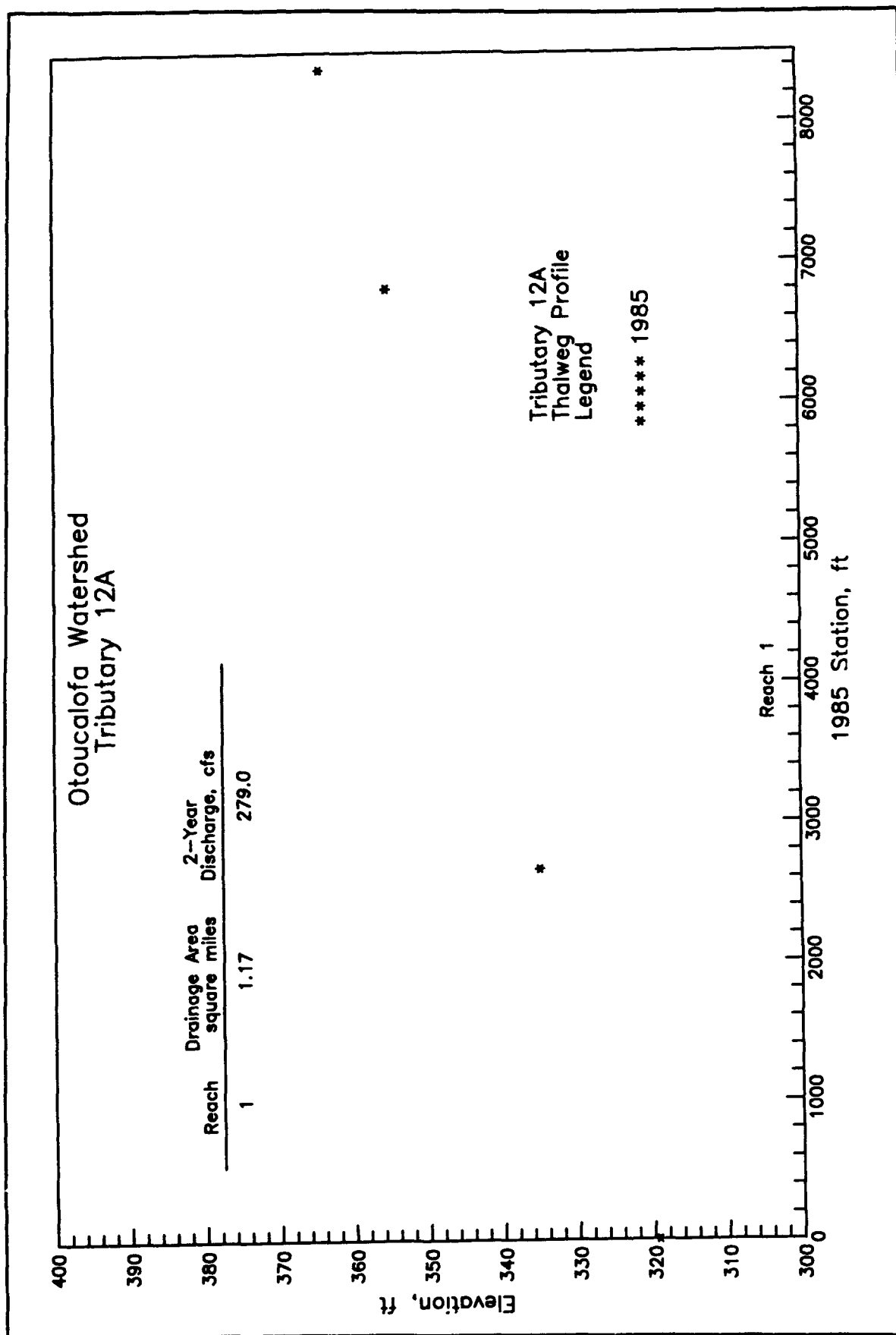
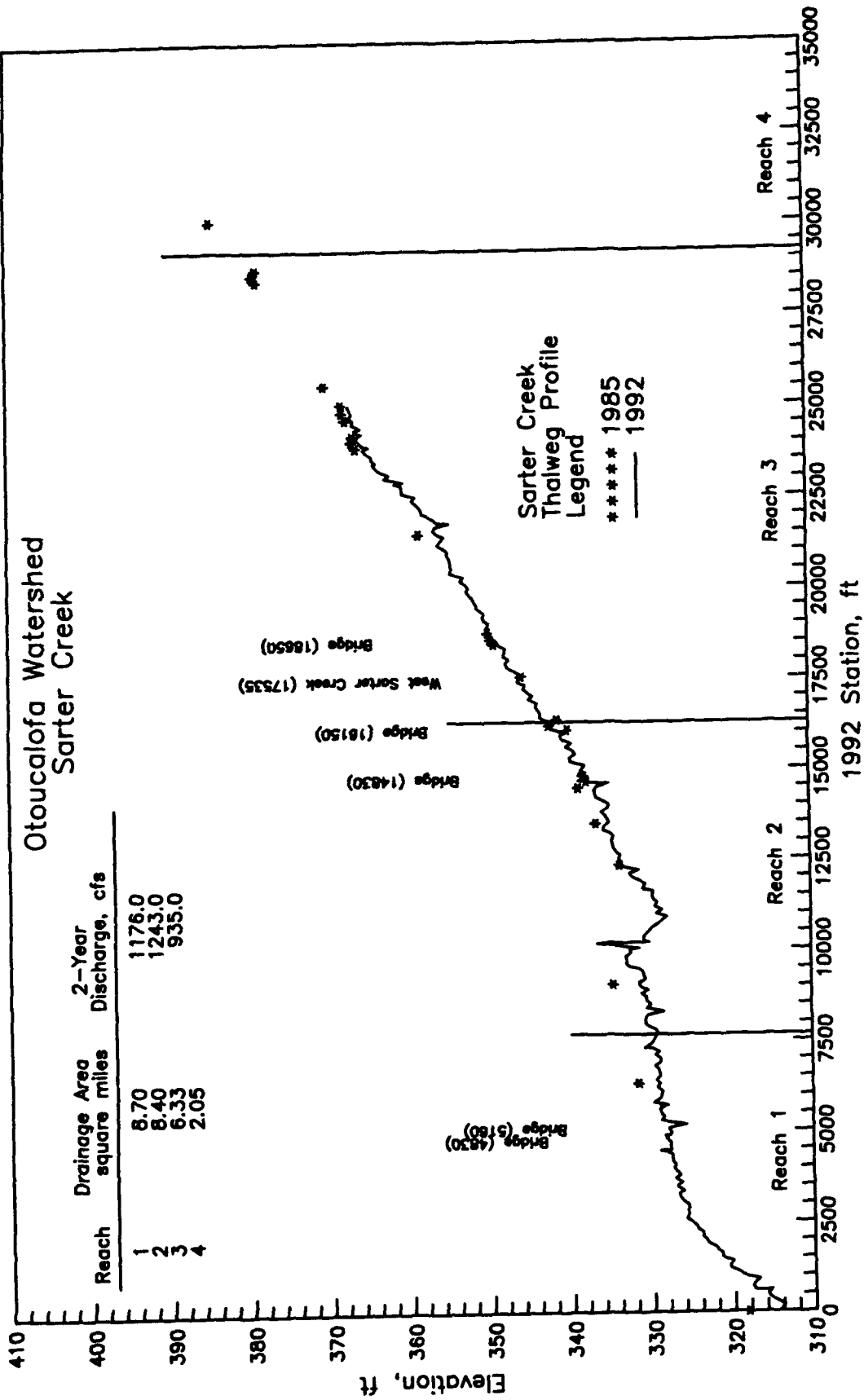


Plate C22

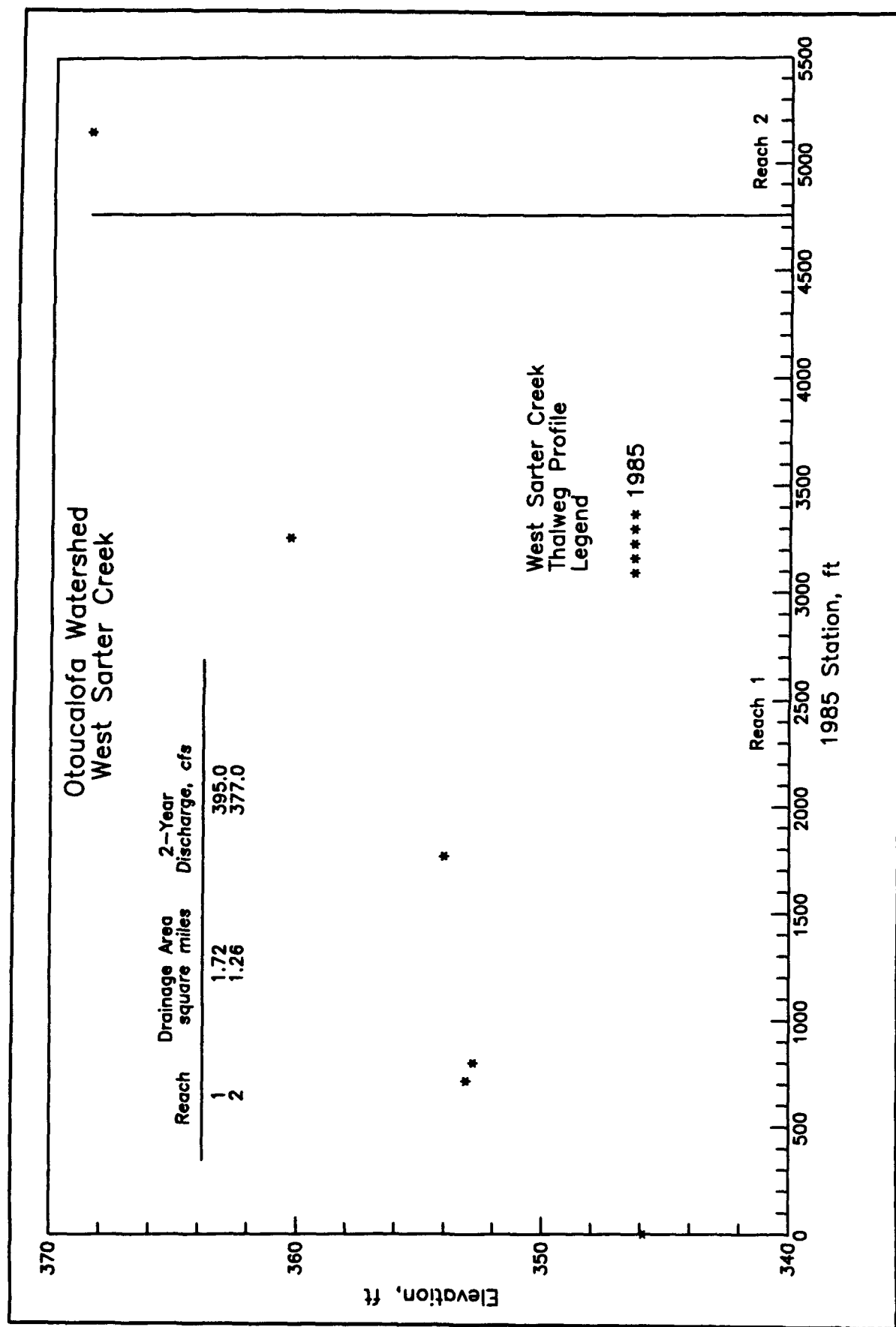


# Otocalofa Watershed Sarter Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	8.70	1176.0
2	8.40	1243.0
3	6.33	935.0
4	2.05	

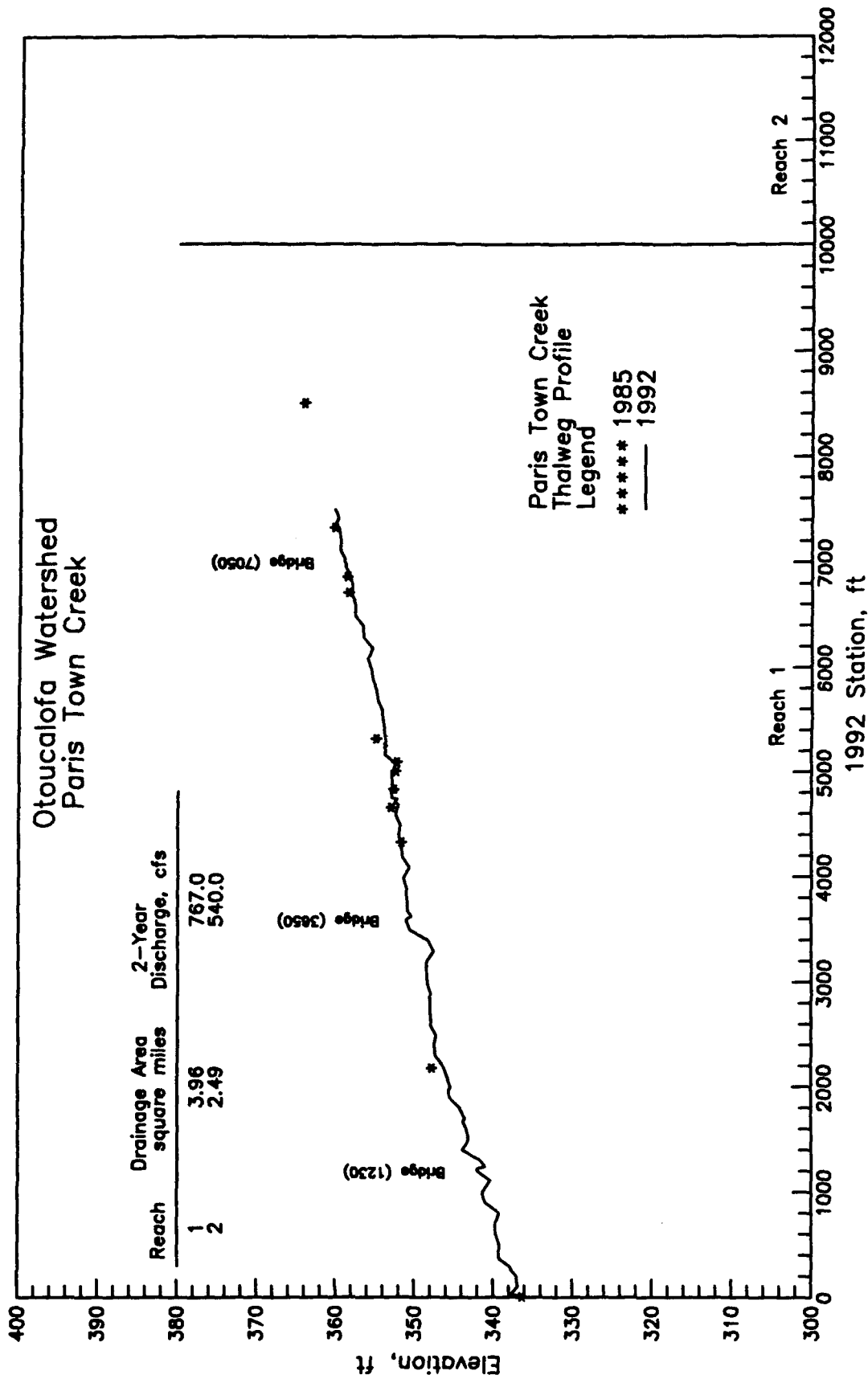


Sarter Creek  
Thalweg Profile  
Legend  
\*\*\*\*\* 1985  
———— 1992



# Otocalofa Watershed Paris Town Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	3.96	767.0
2	2.49	540.0

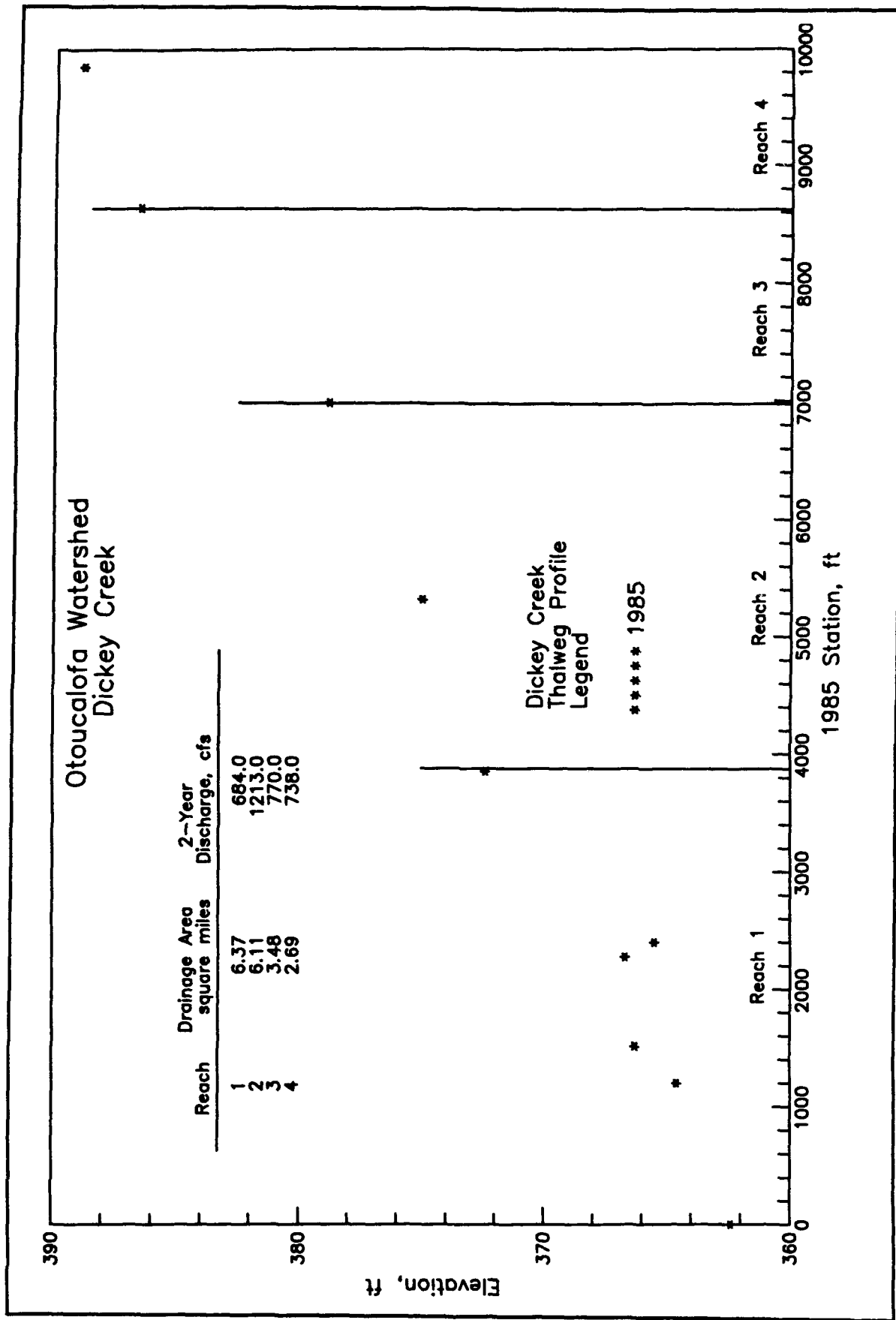


Paris Town Creek  
Thalweg Profile  
Legend

\*\*\*\*\* 1985  
— 1992

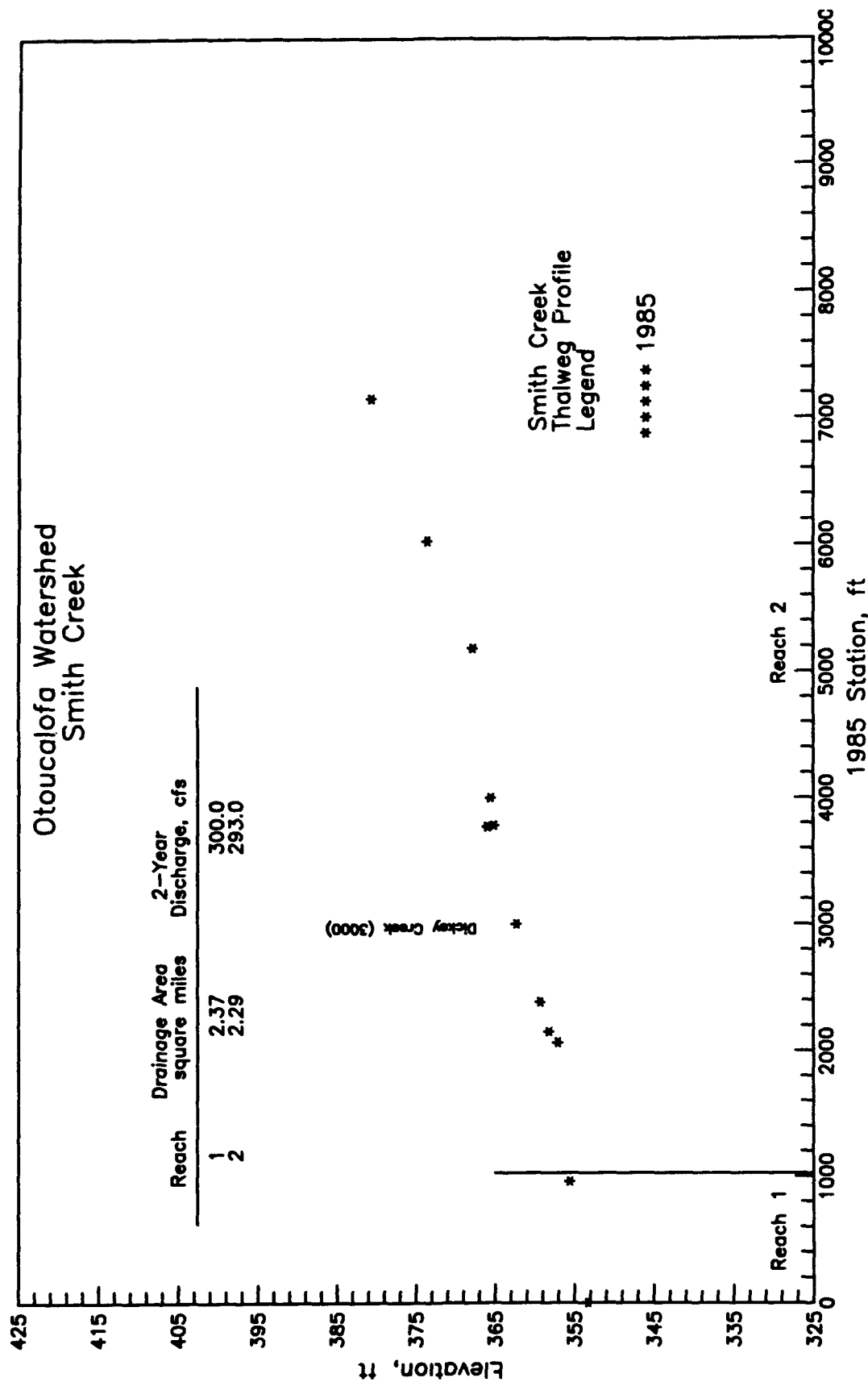
Reach 1  
Reach 2  
1992 Station, ft

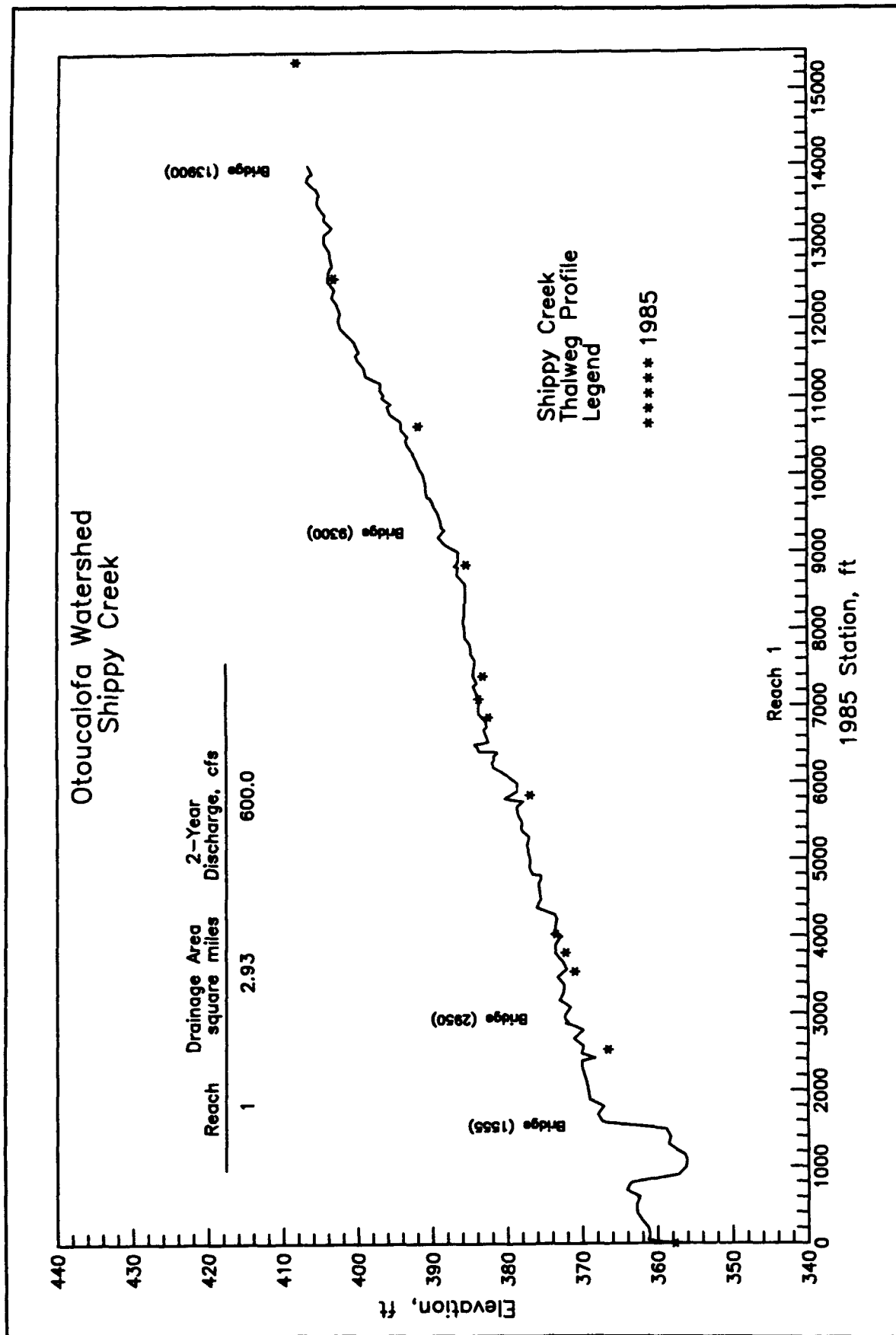


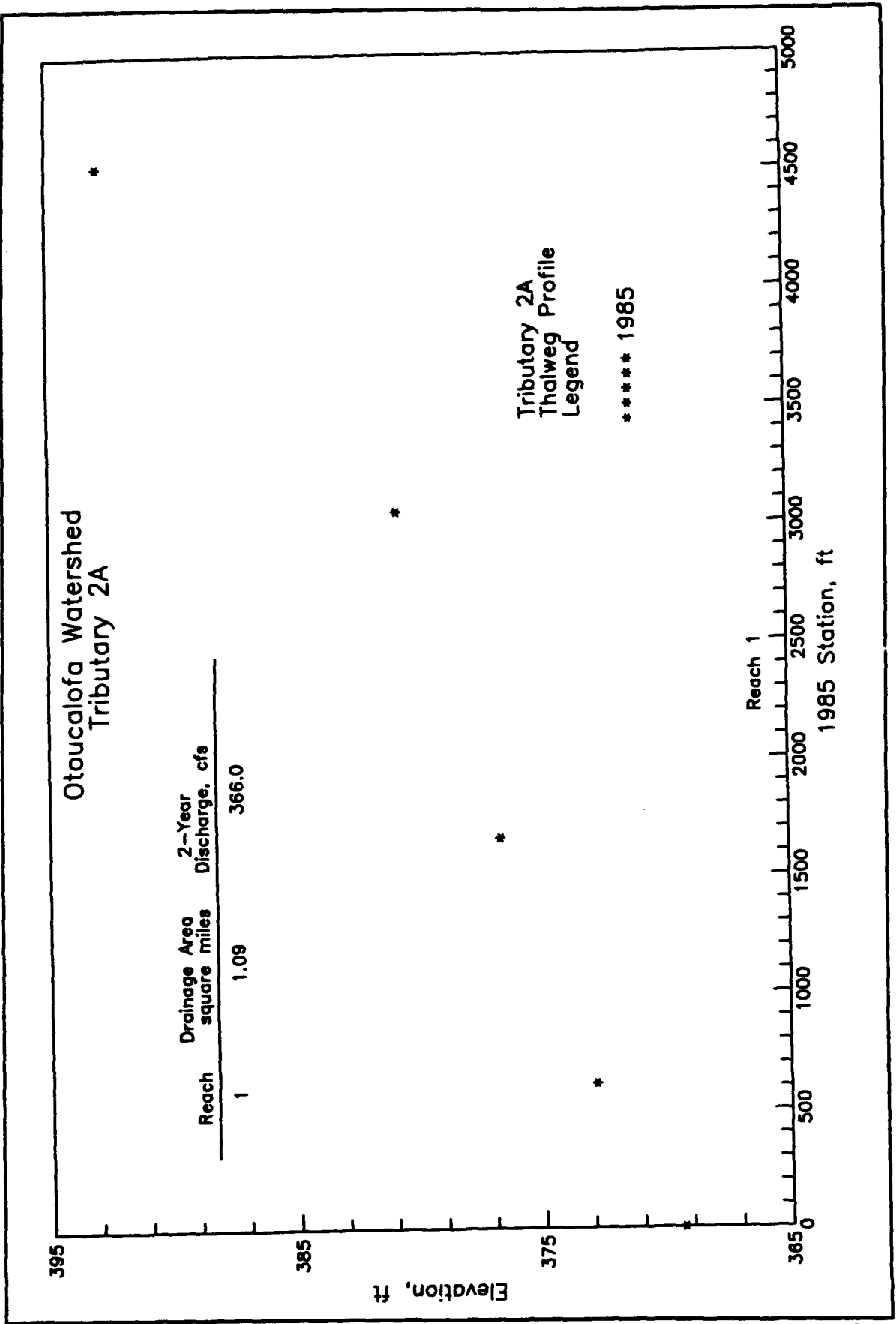


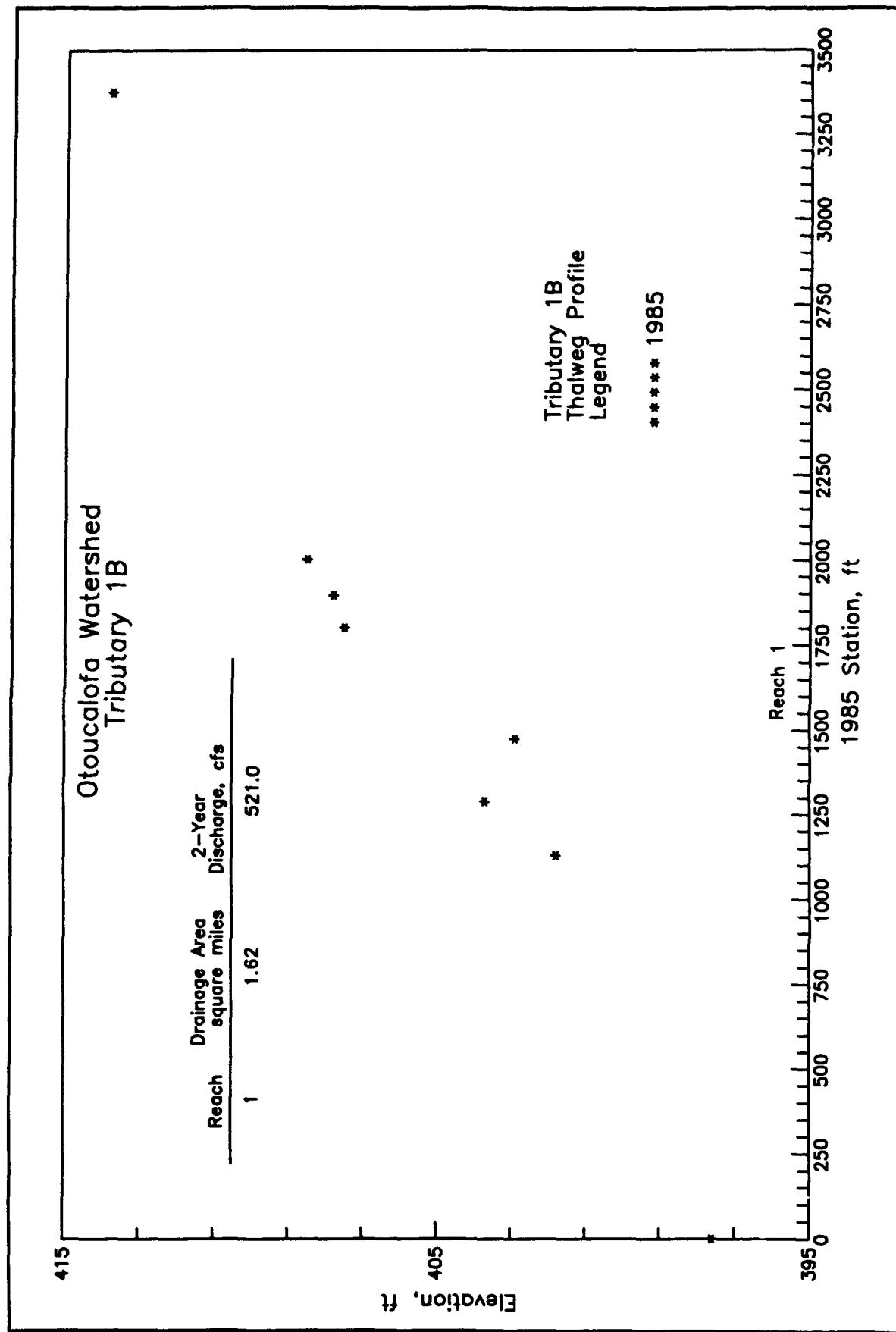
# Otoucalofa Watershed Smith Creek

Reach	Drainage Area square miles	2-Year Discharge, cfs
1	2.37	300.0
2	2.29	293.0

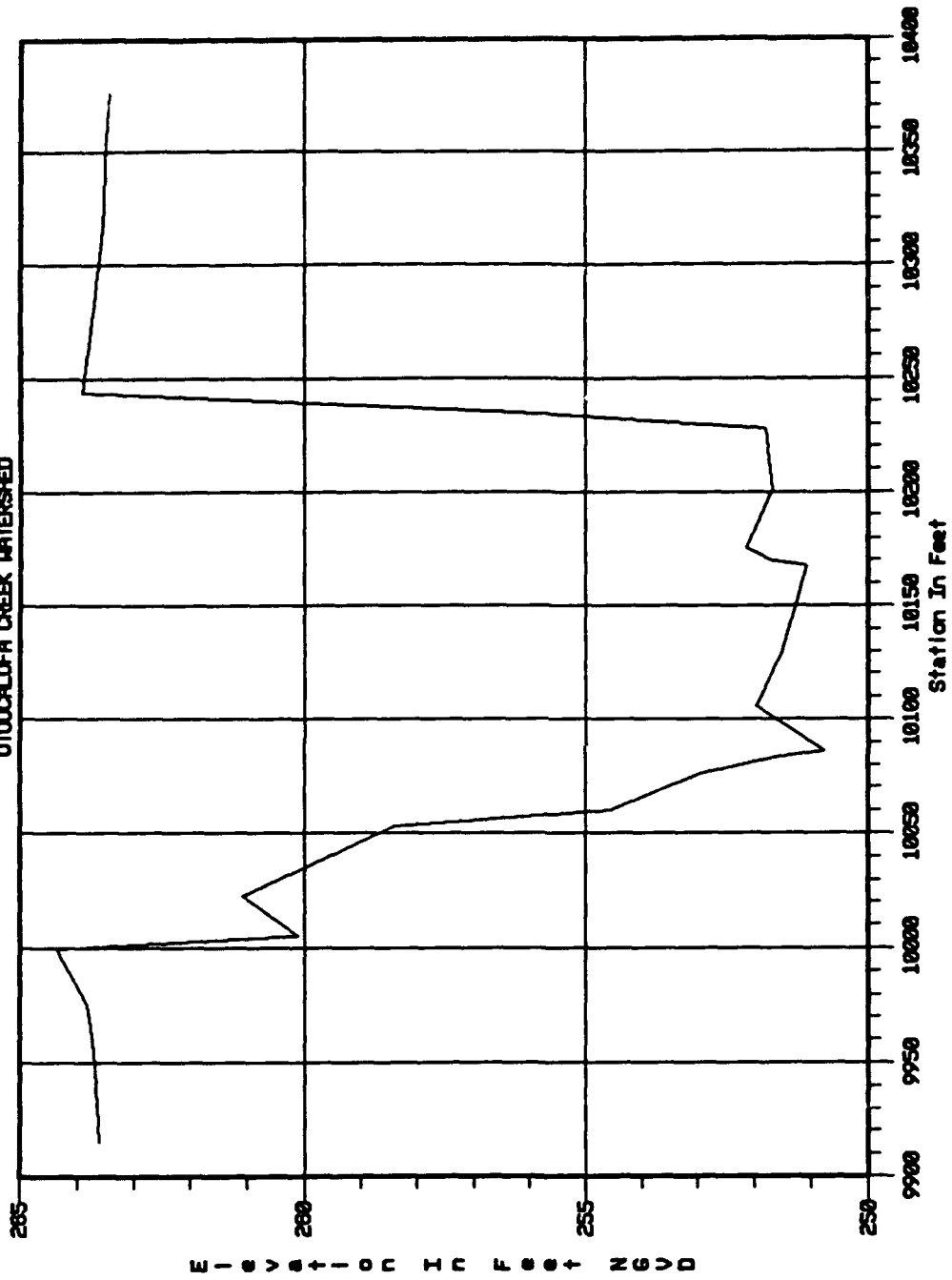








OTTOLOLOFA CREEK WATERSHED



OTTOLOLOFA CREEK 1992 XSEC 208

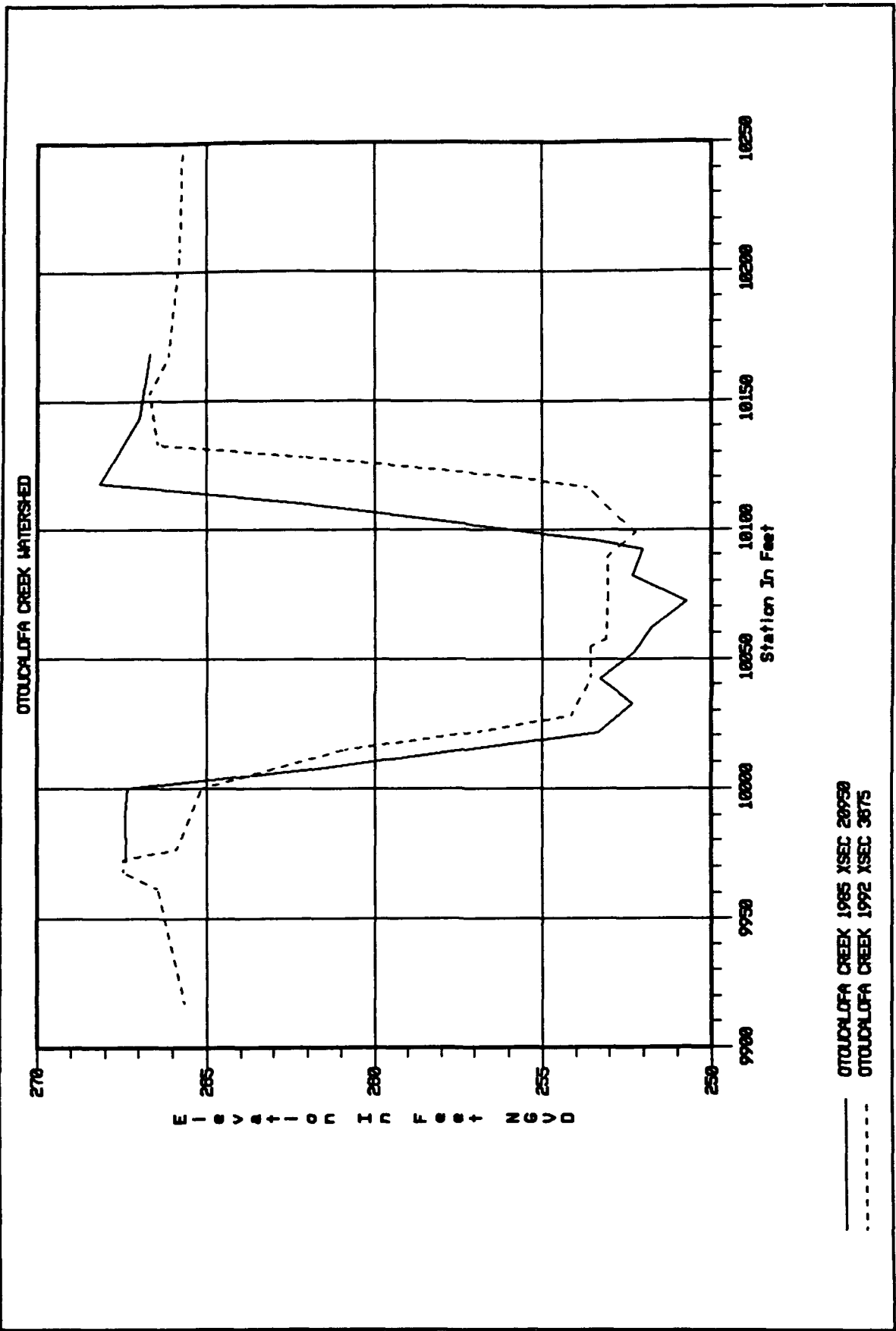
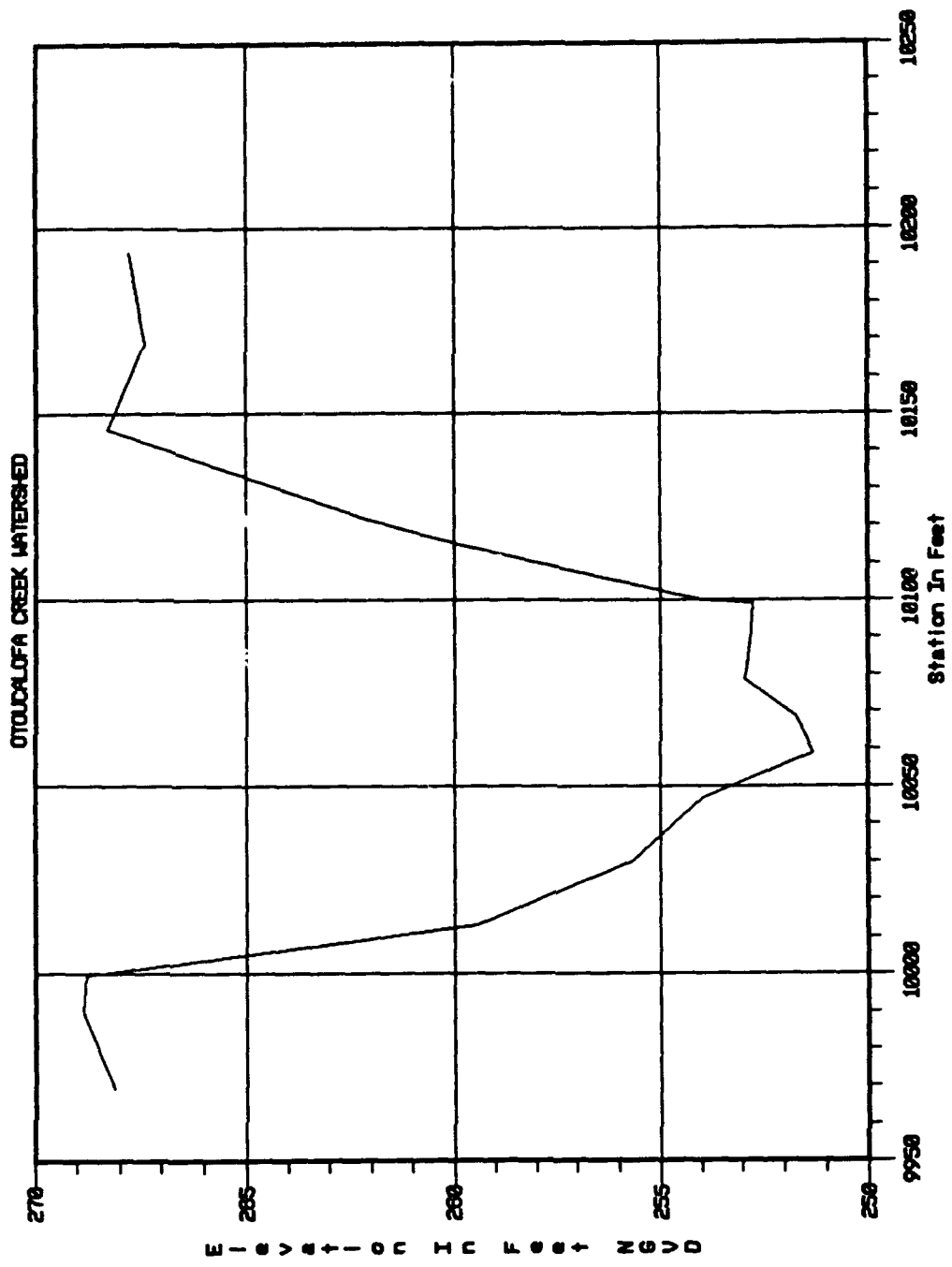
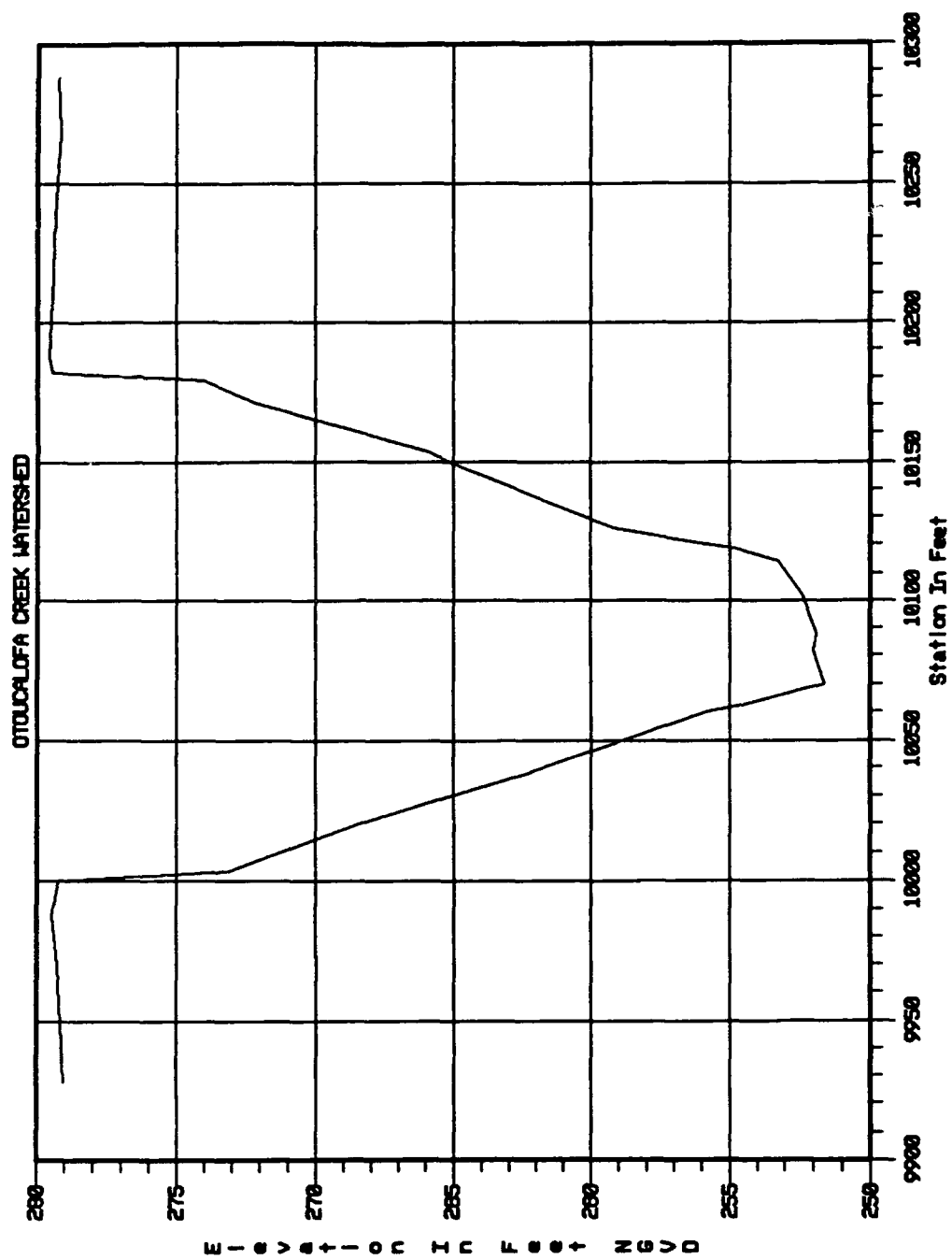


Plate C32

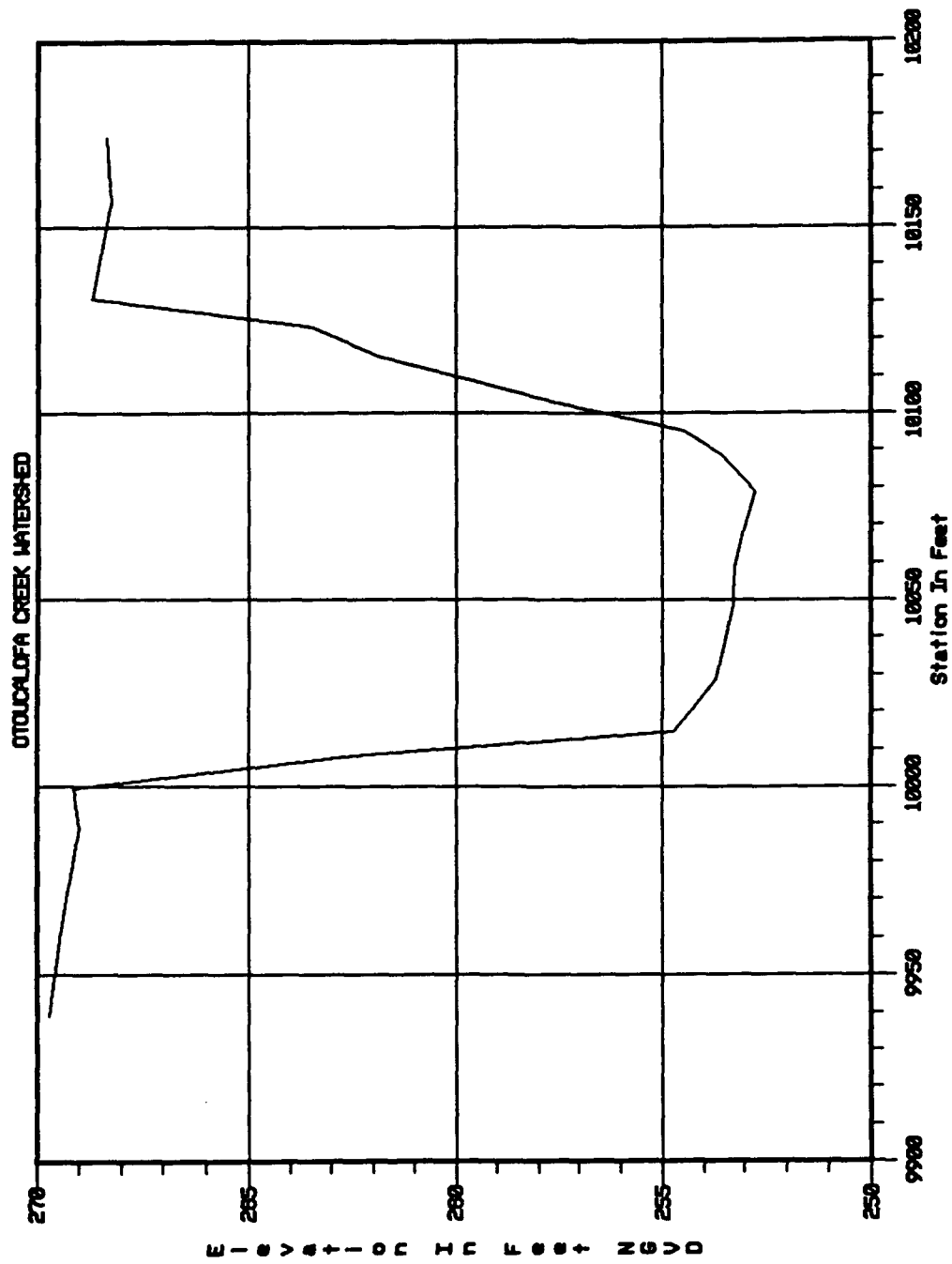


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OTOUKALOFA CREEK 1992 XSEC 5527



OTTOQUALOFA CREEK 1965 XSEC 22850

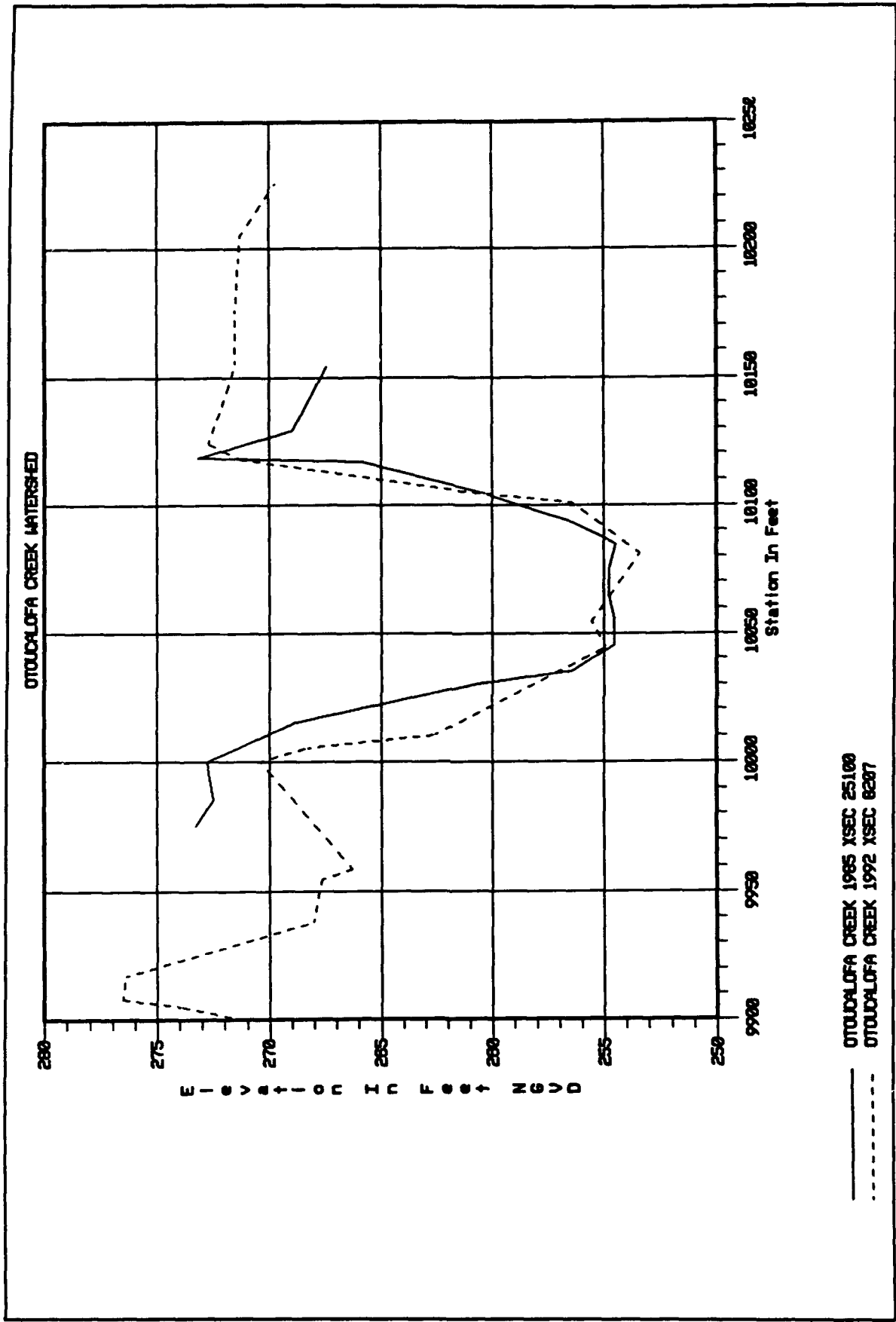
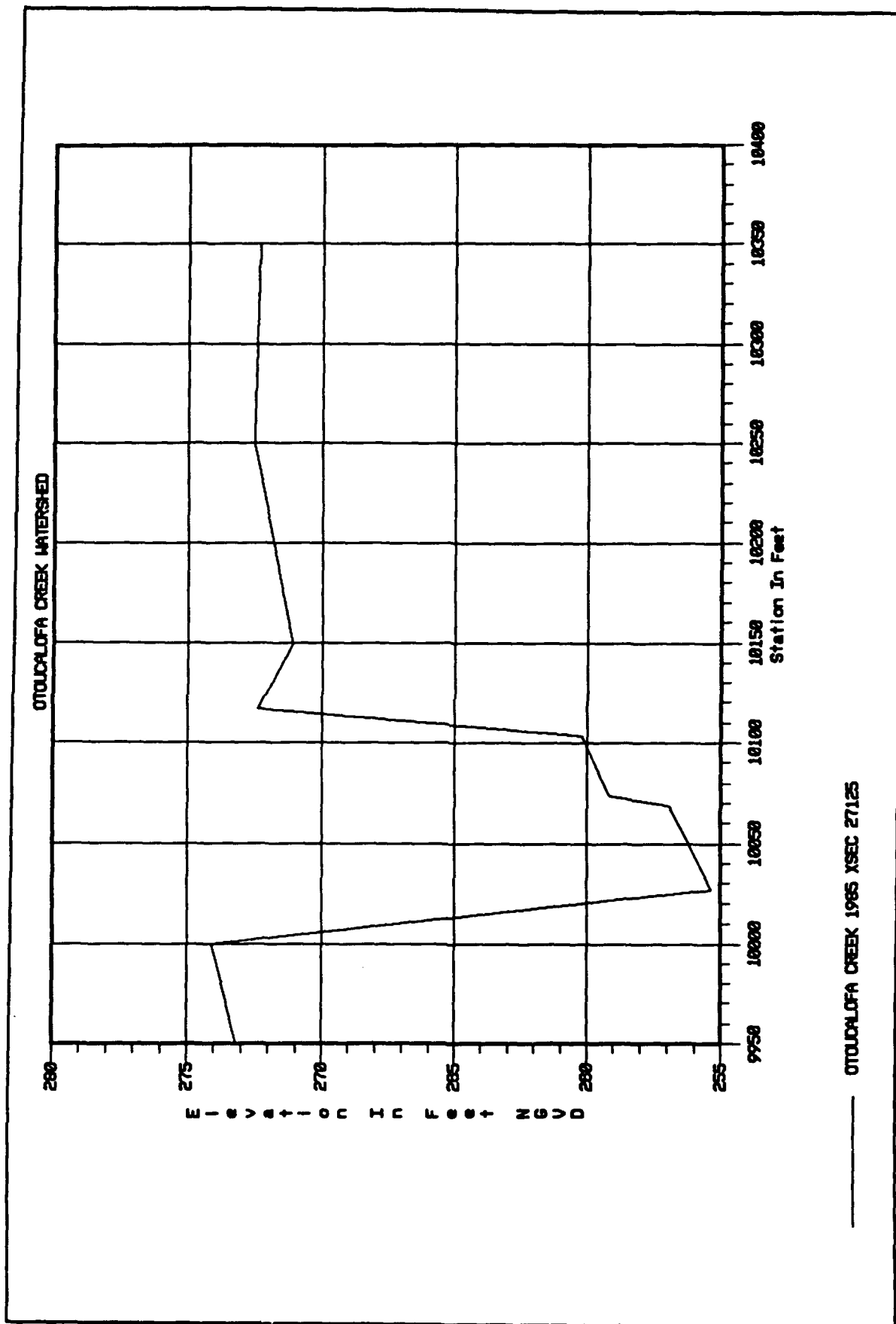


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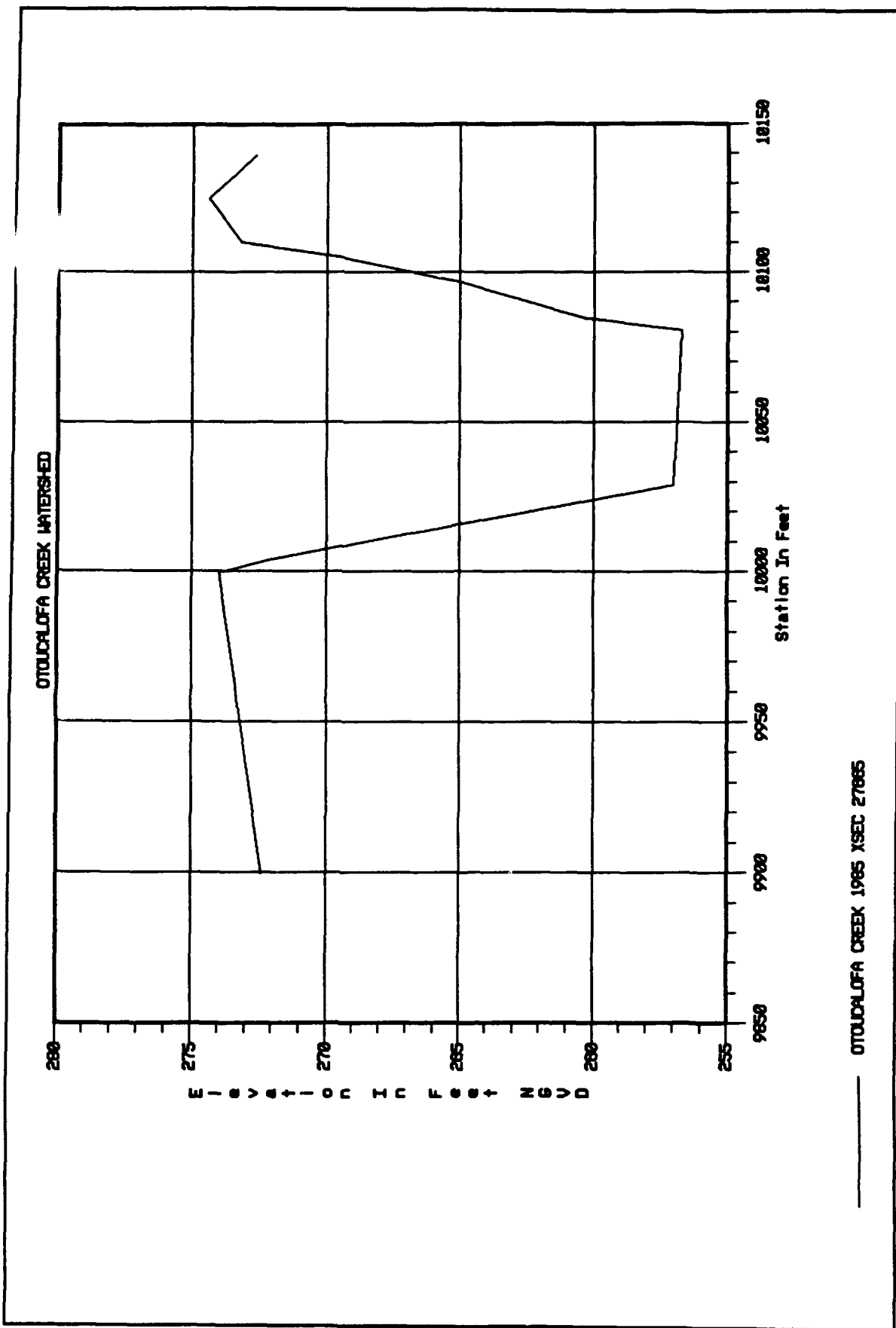
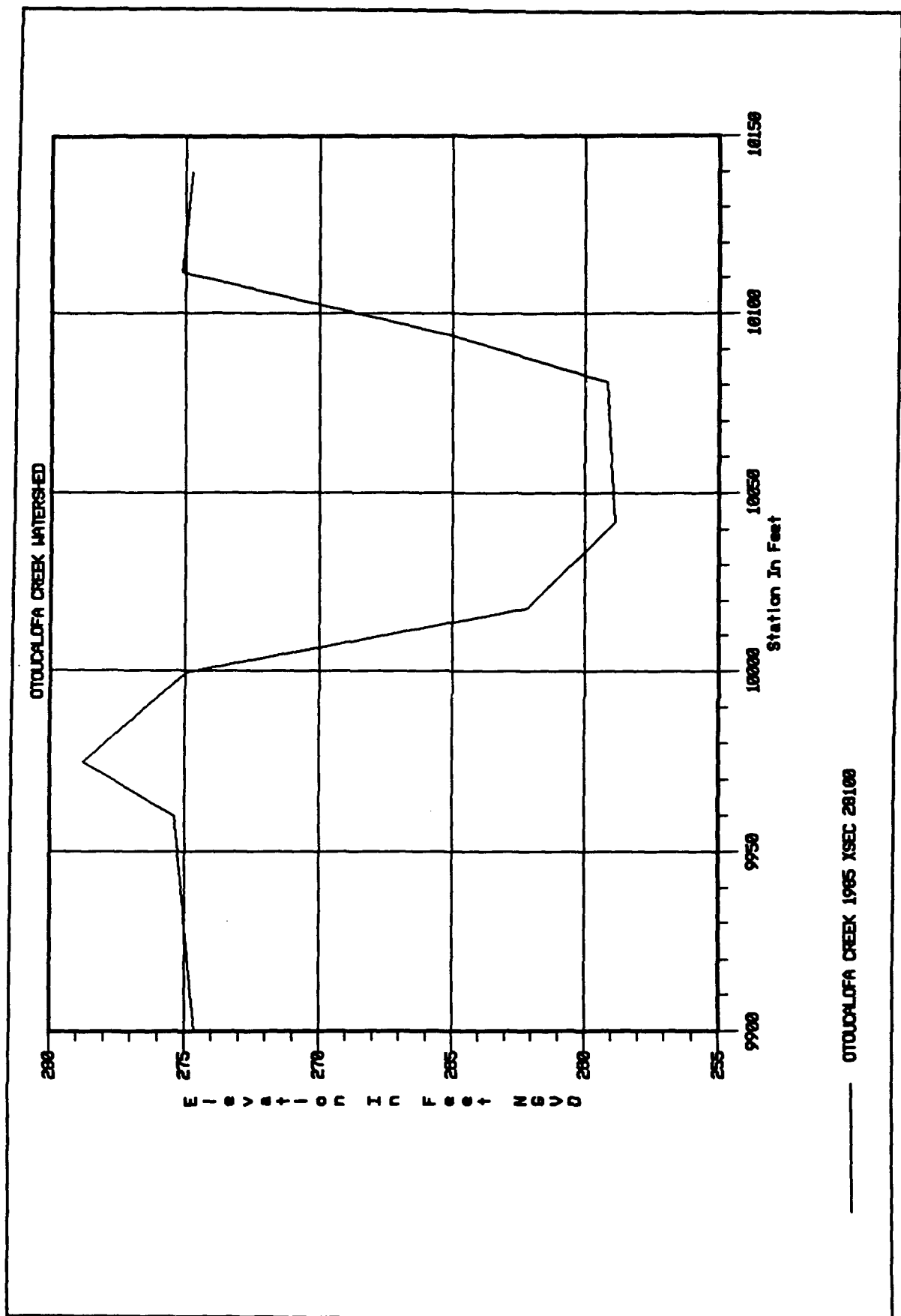


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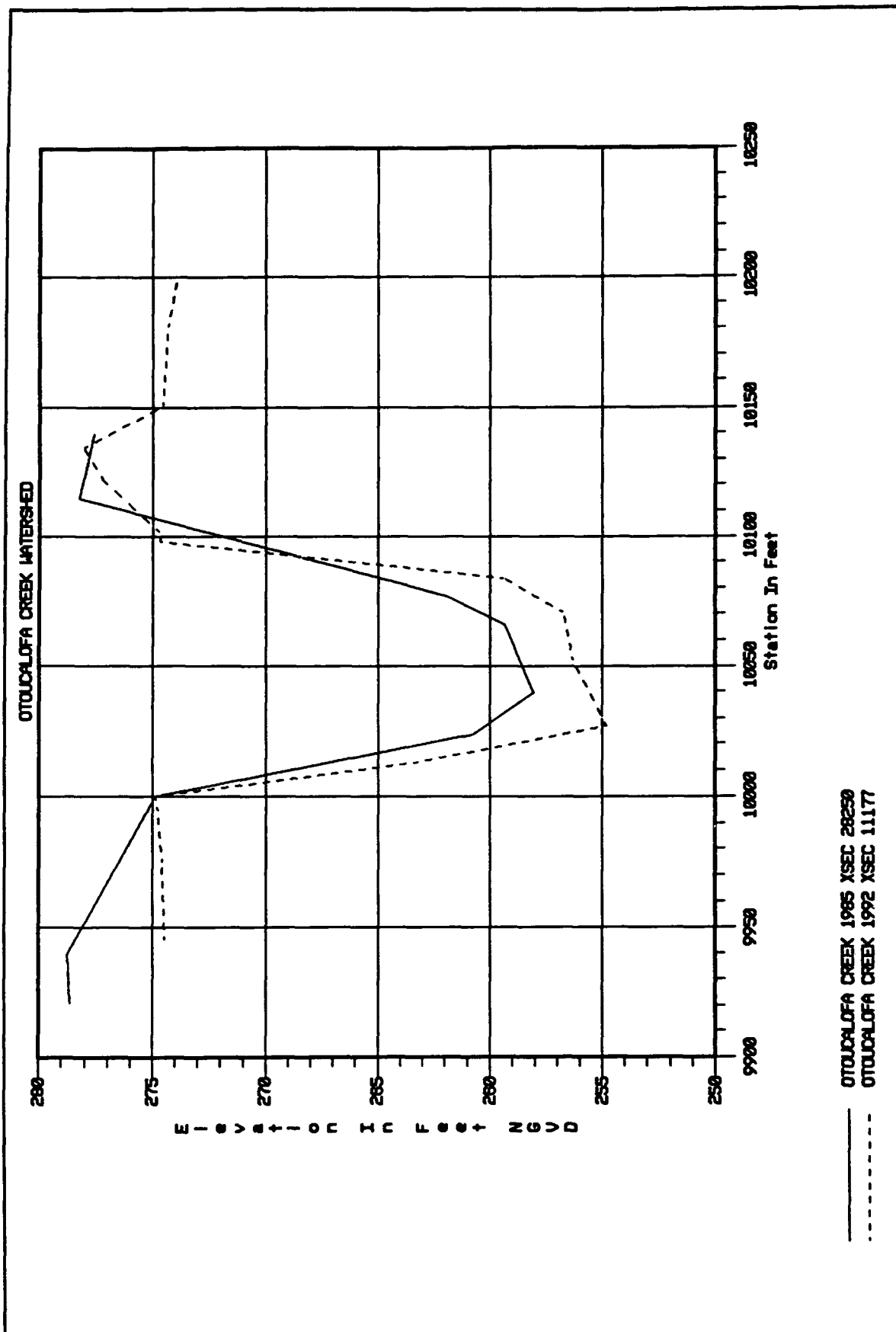
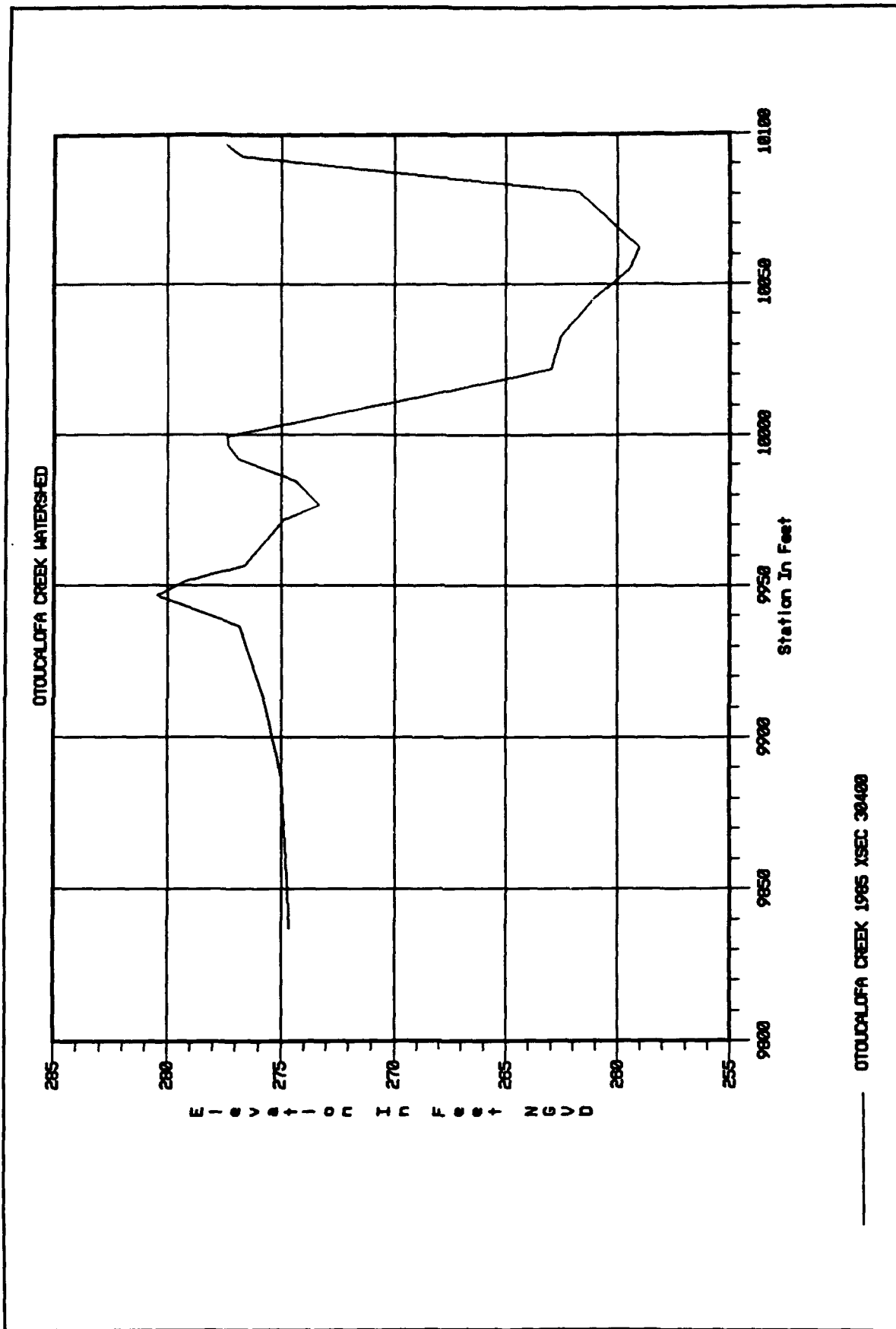
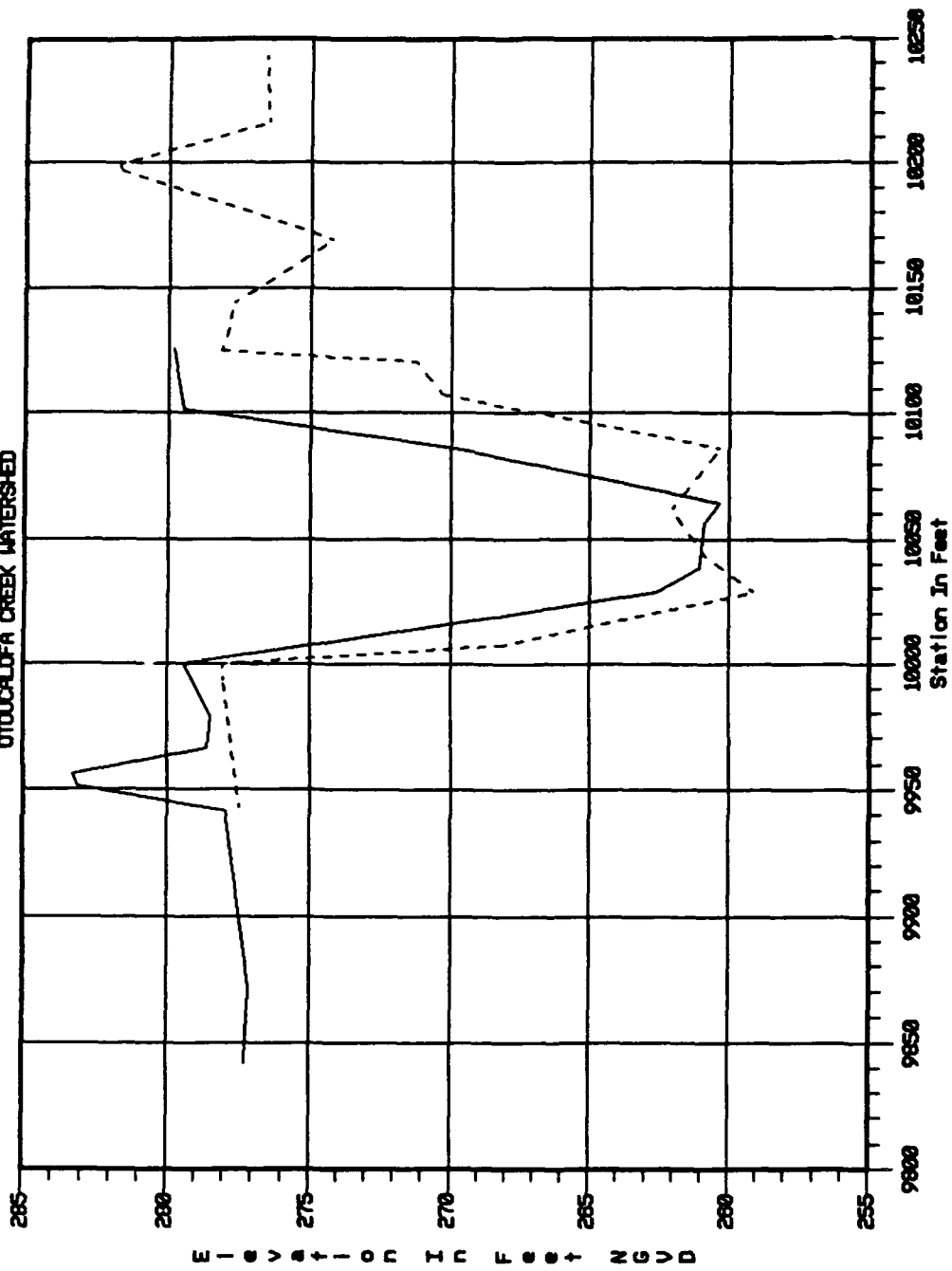


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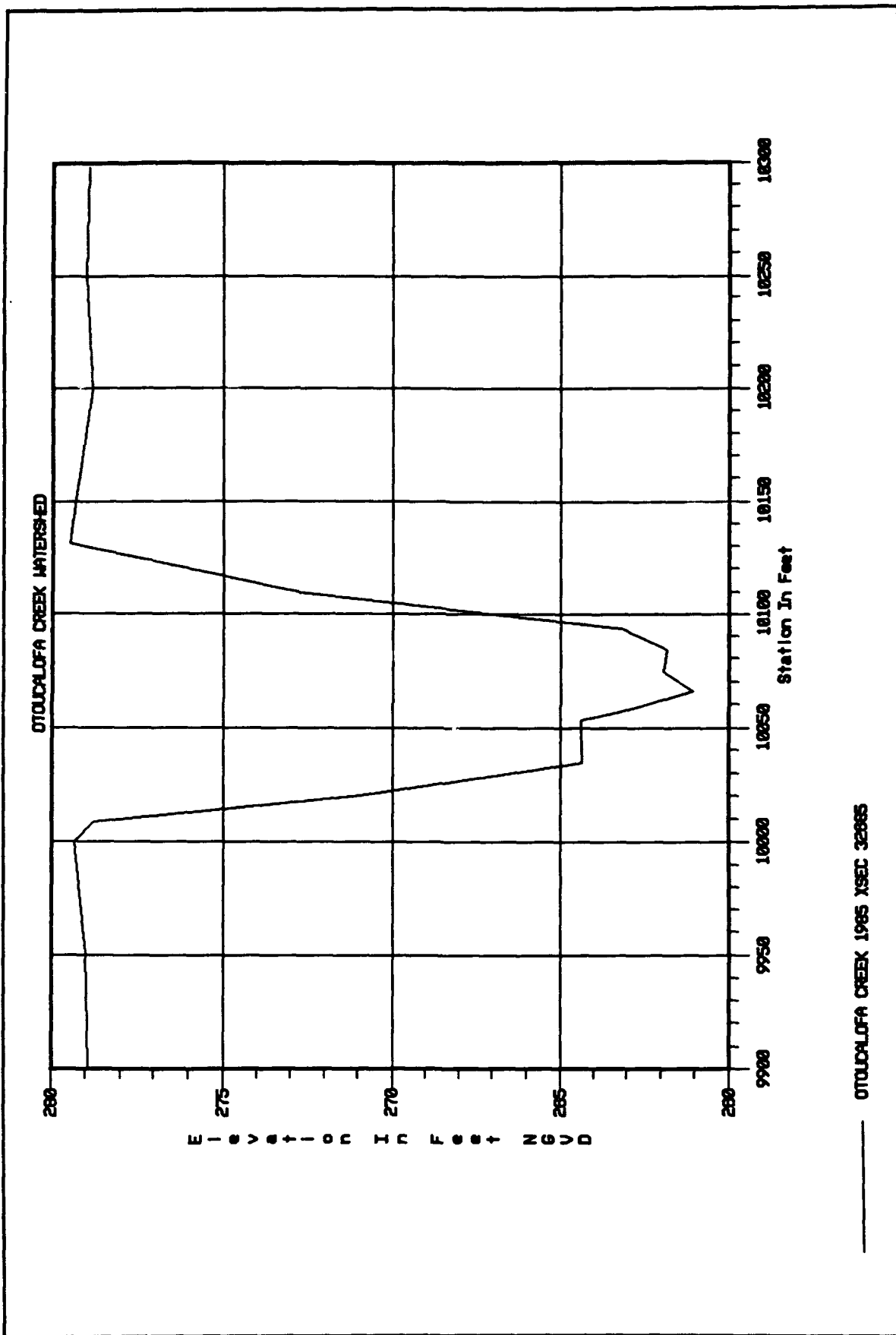




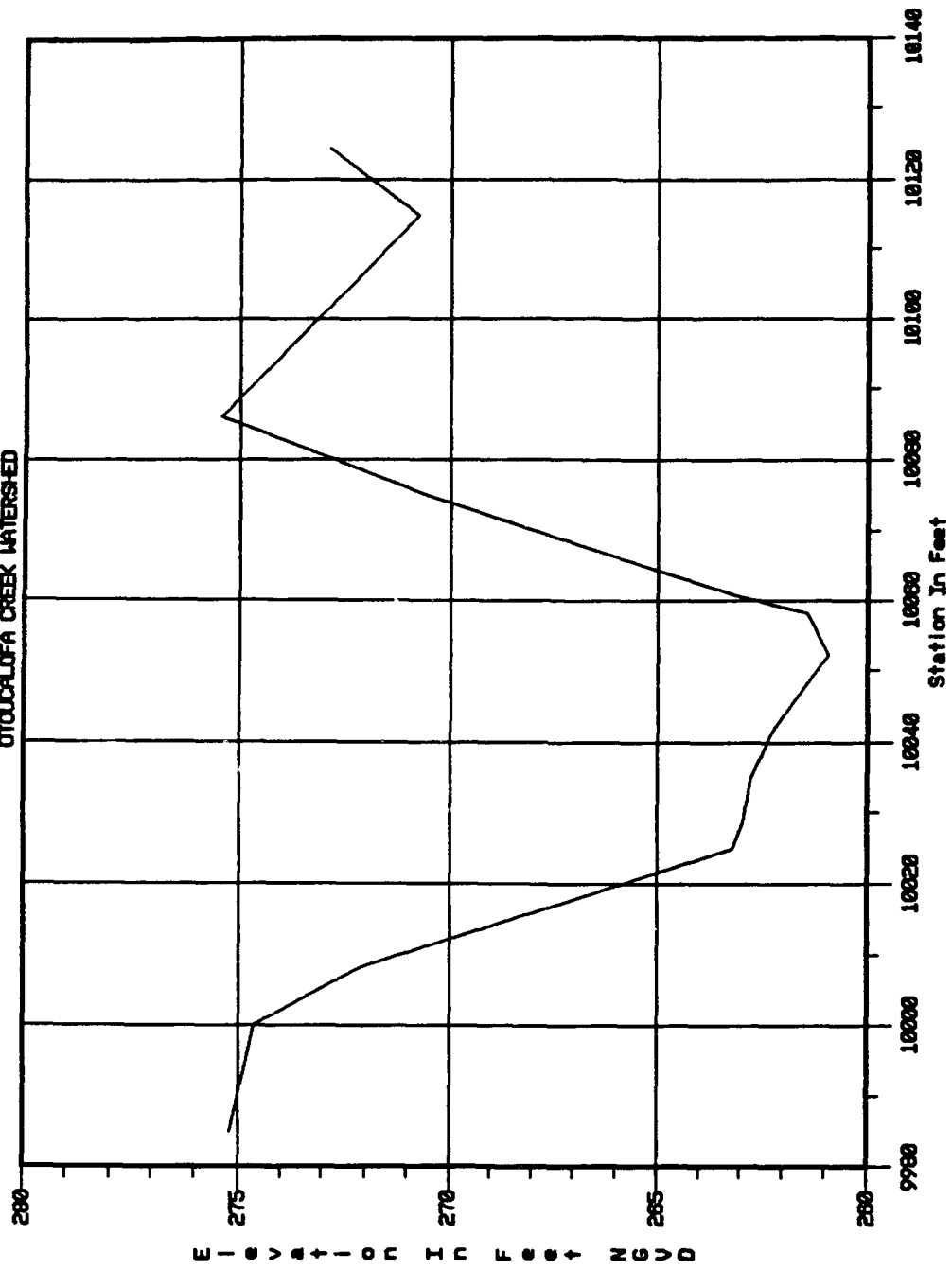
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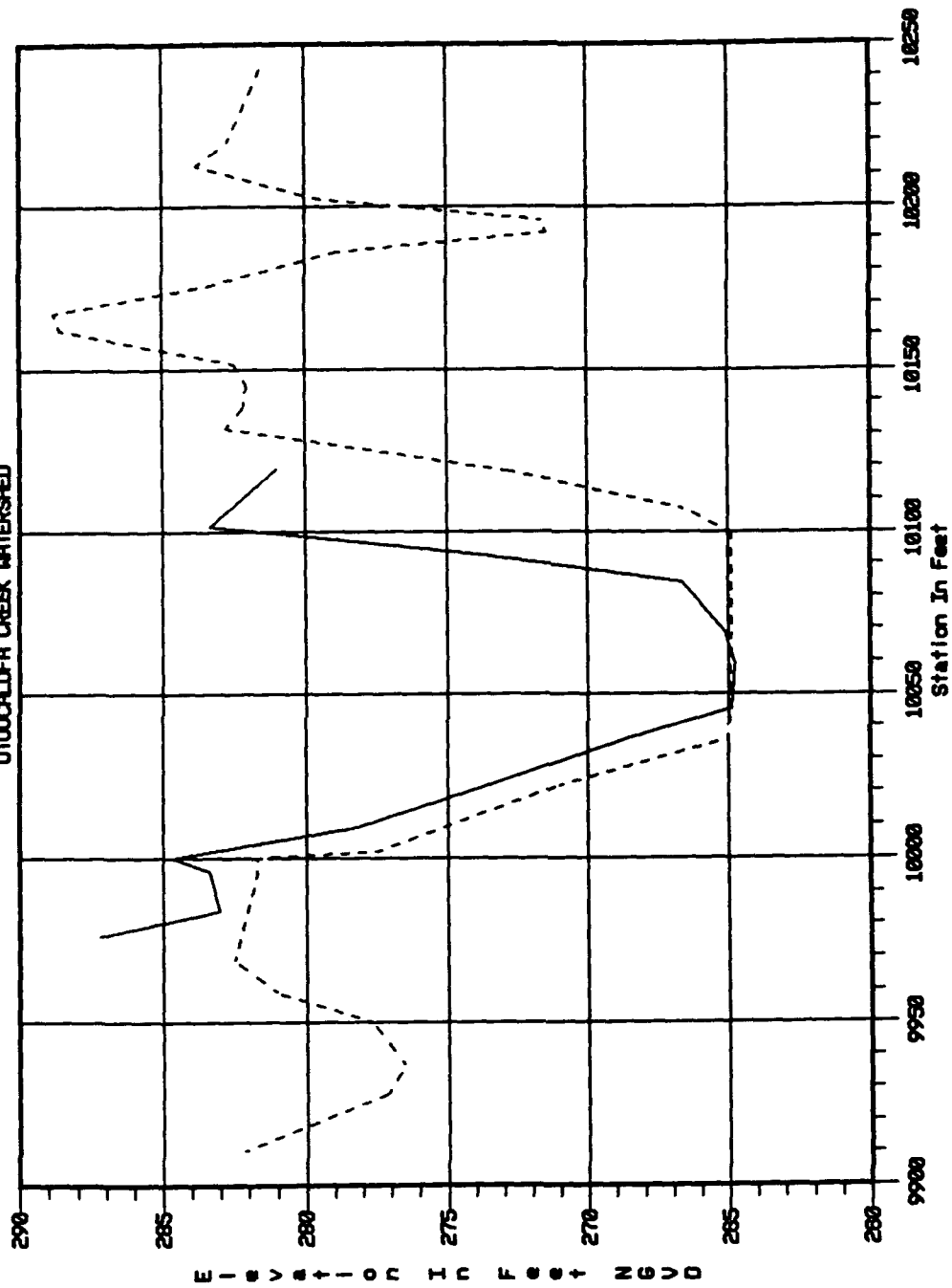


OTOJUALOFA CREEK WATERSHED



OTOJUALOFA CREEK 1985 \ SEC 33800

OTTOLOALOFA CREEK WATERSHED



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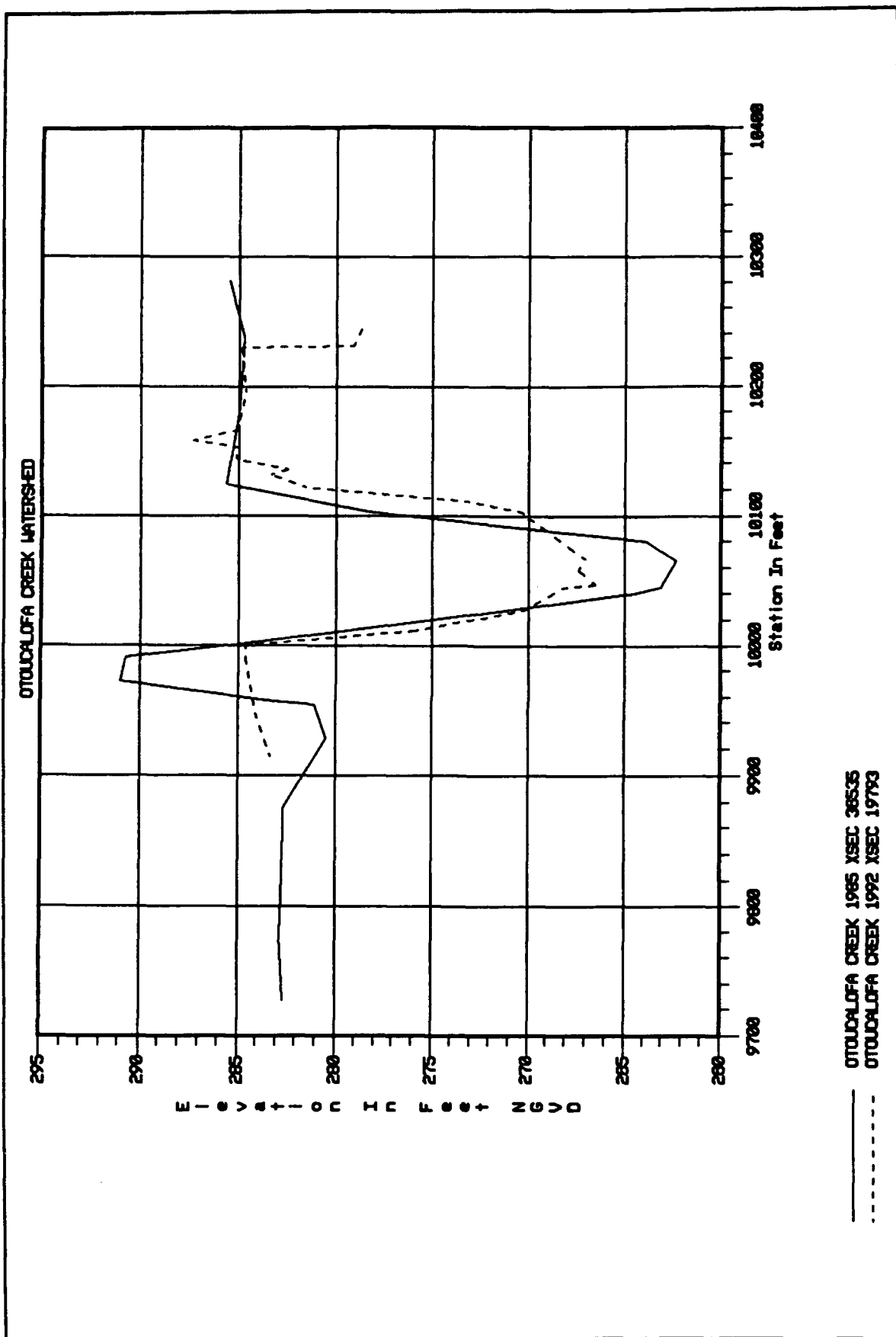
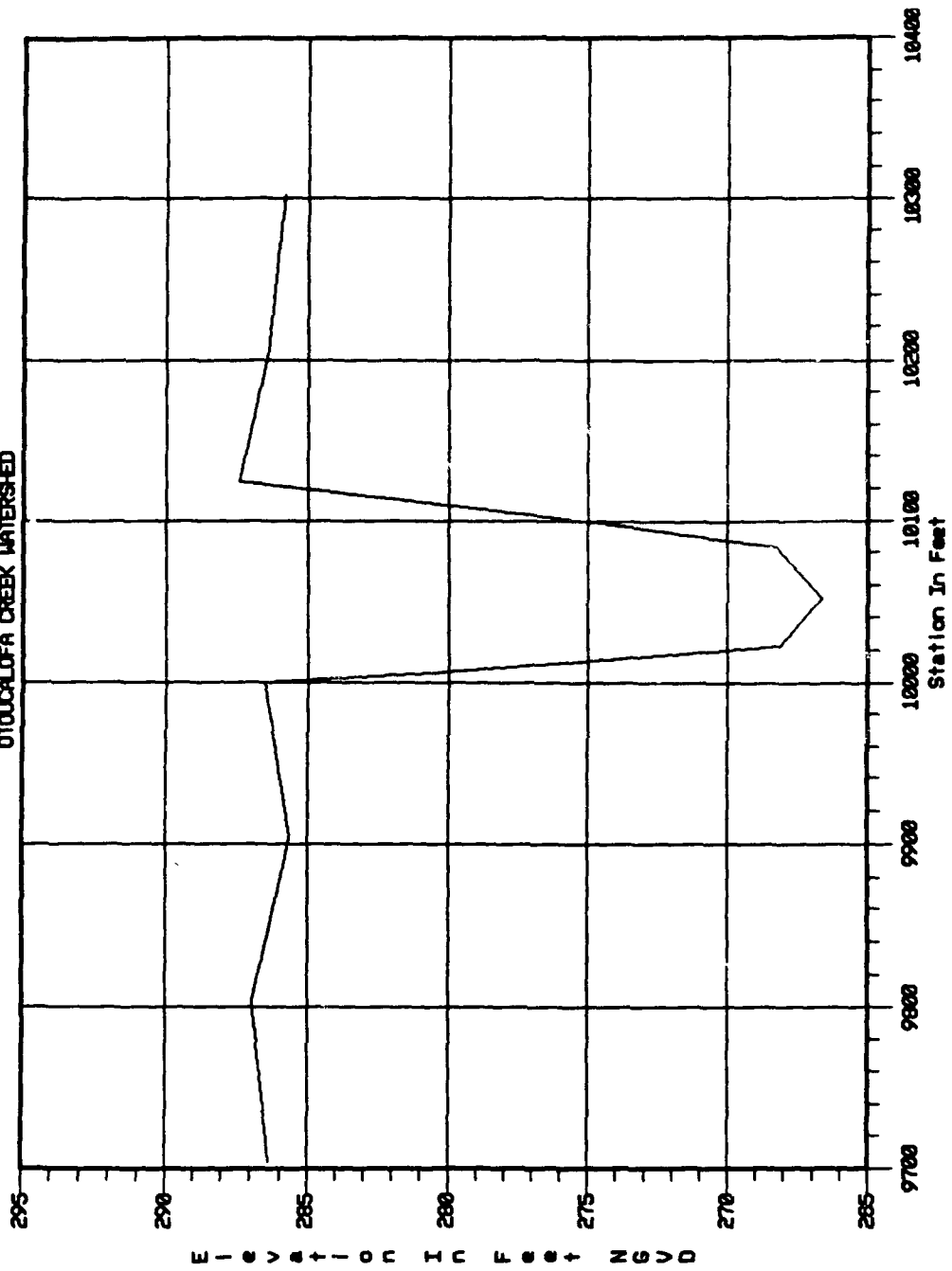


Plate C46

# OTOLUALOFA CREEK WATERSHED



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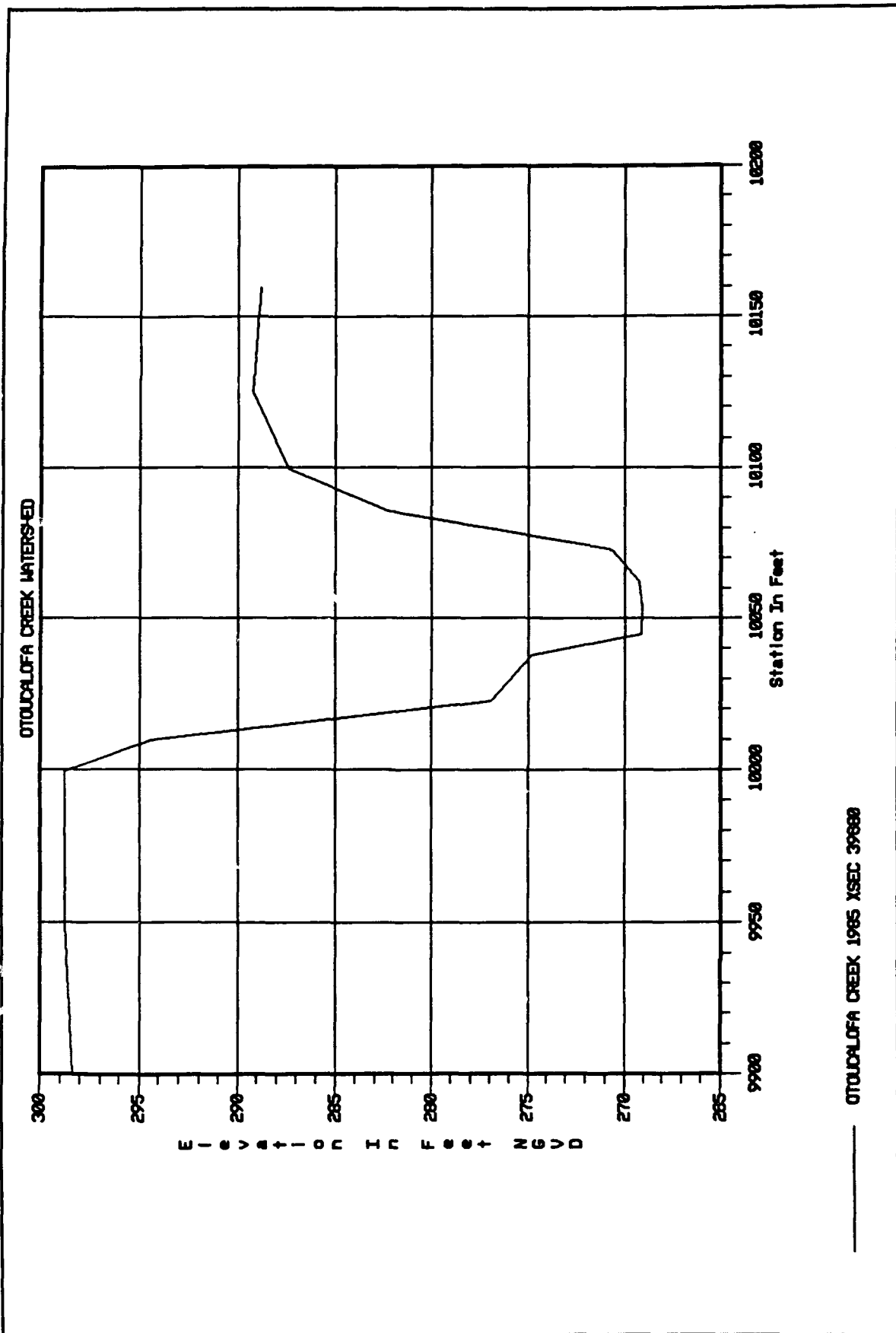
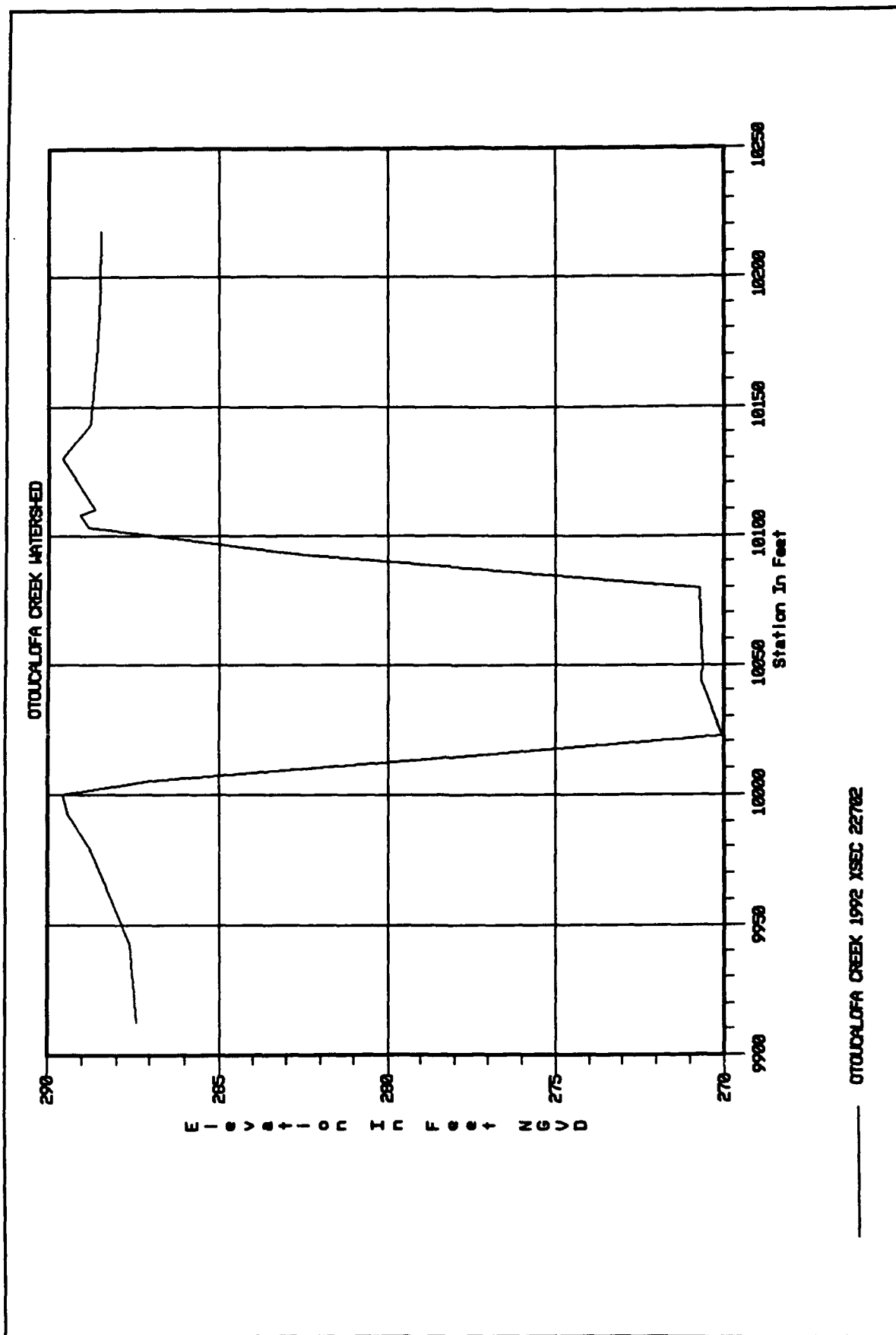


Plate C48





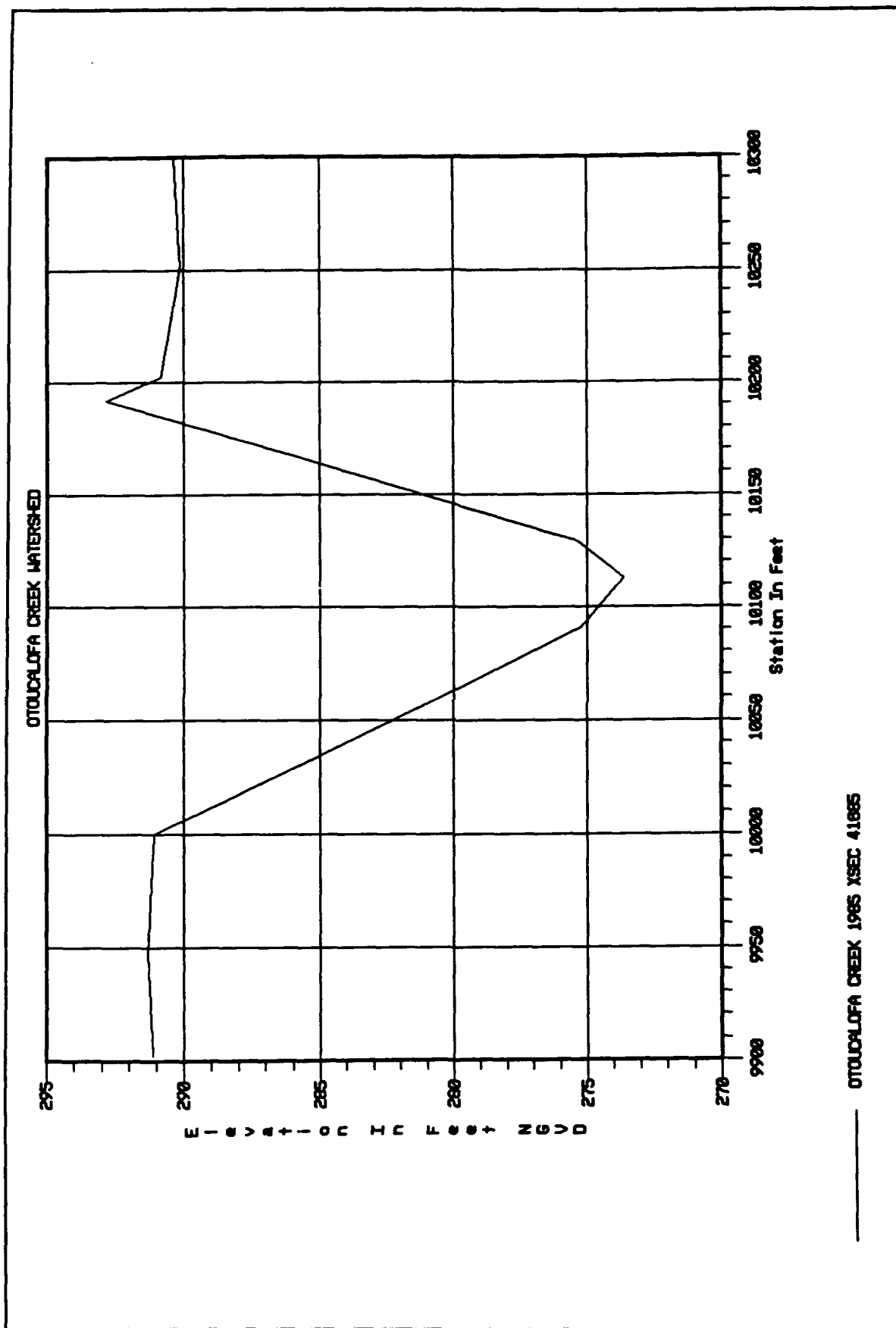
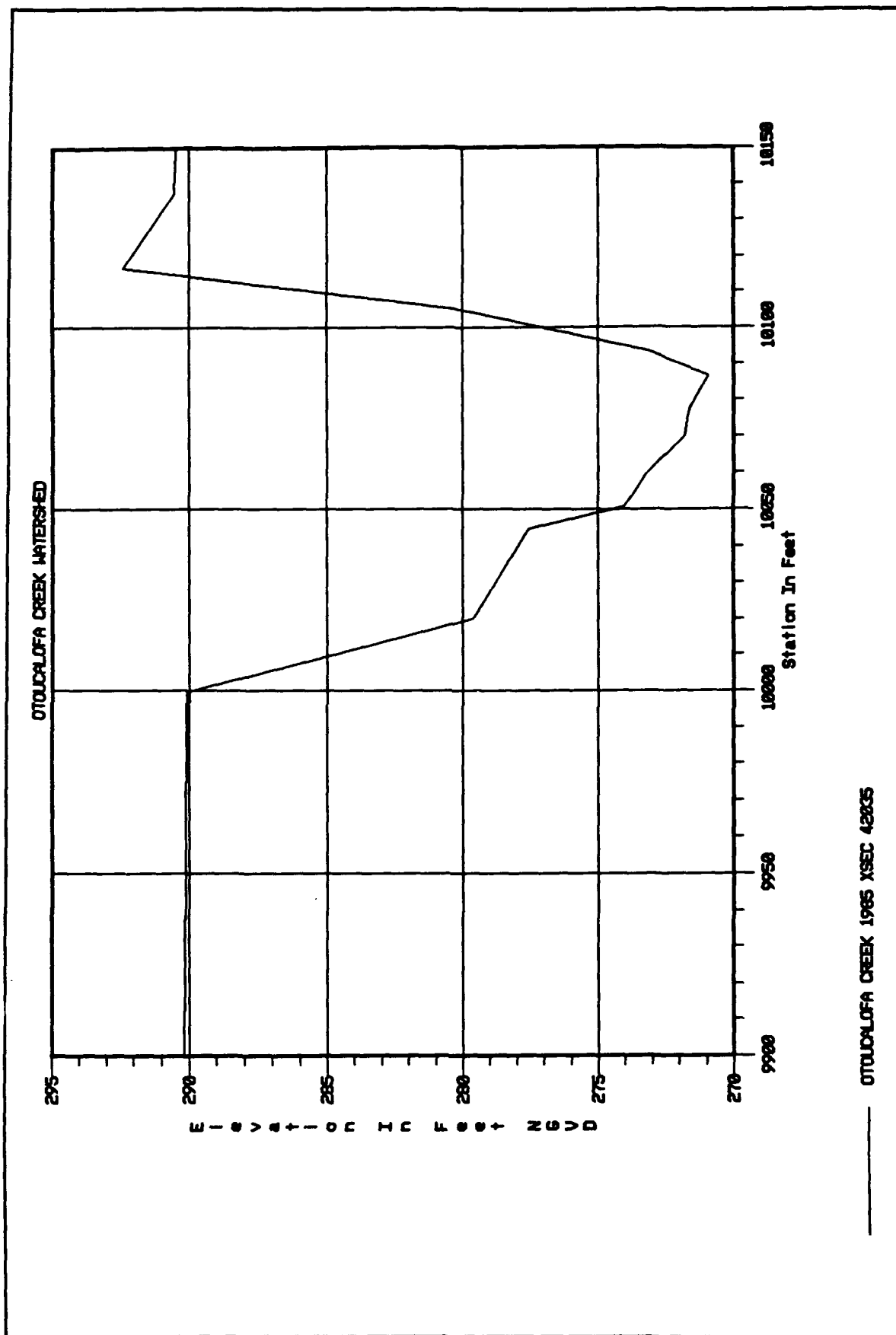


Plate C50



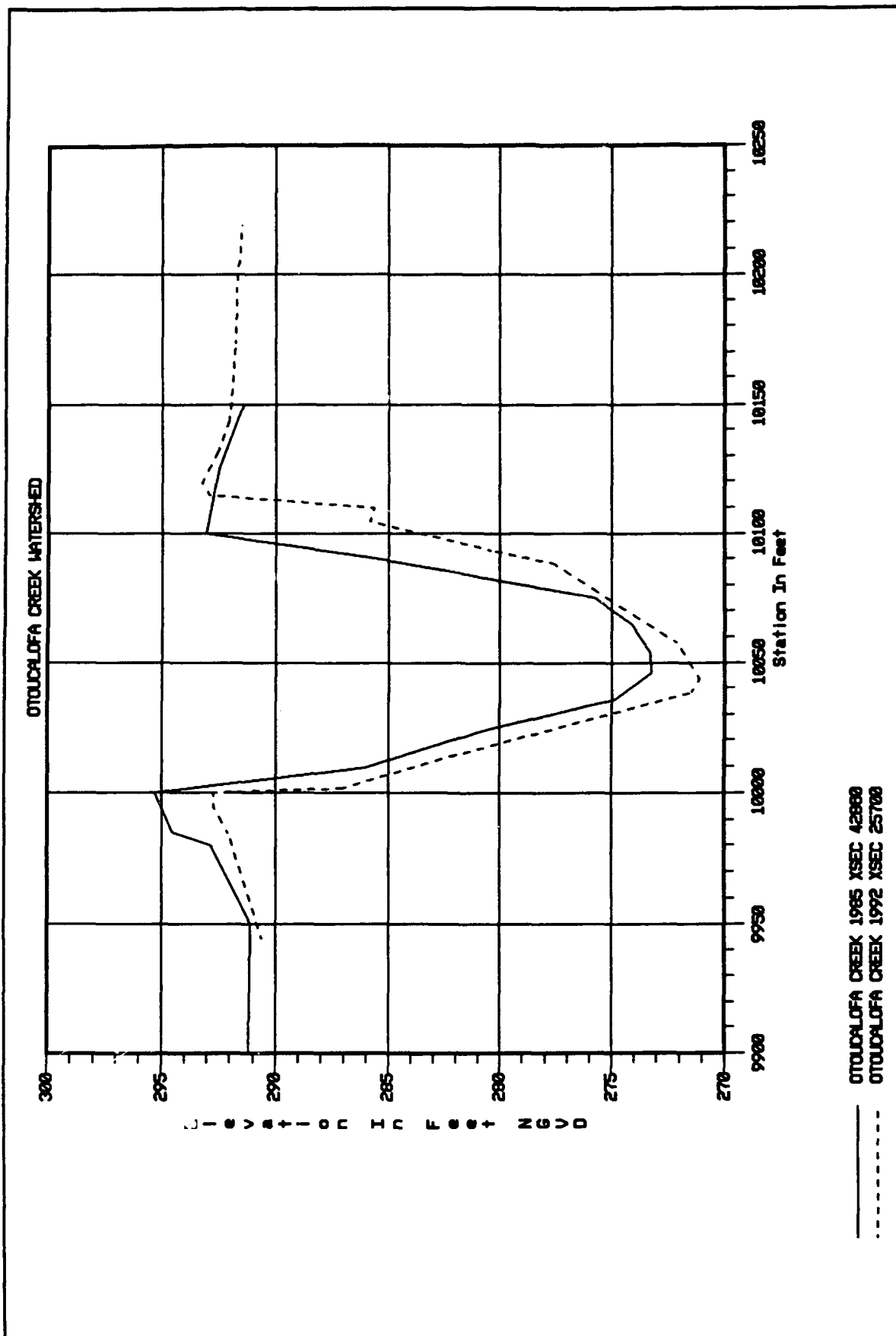
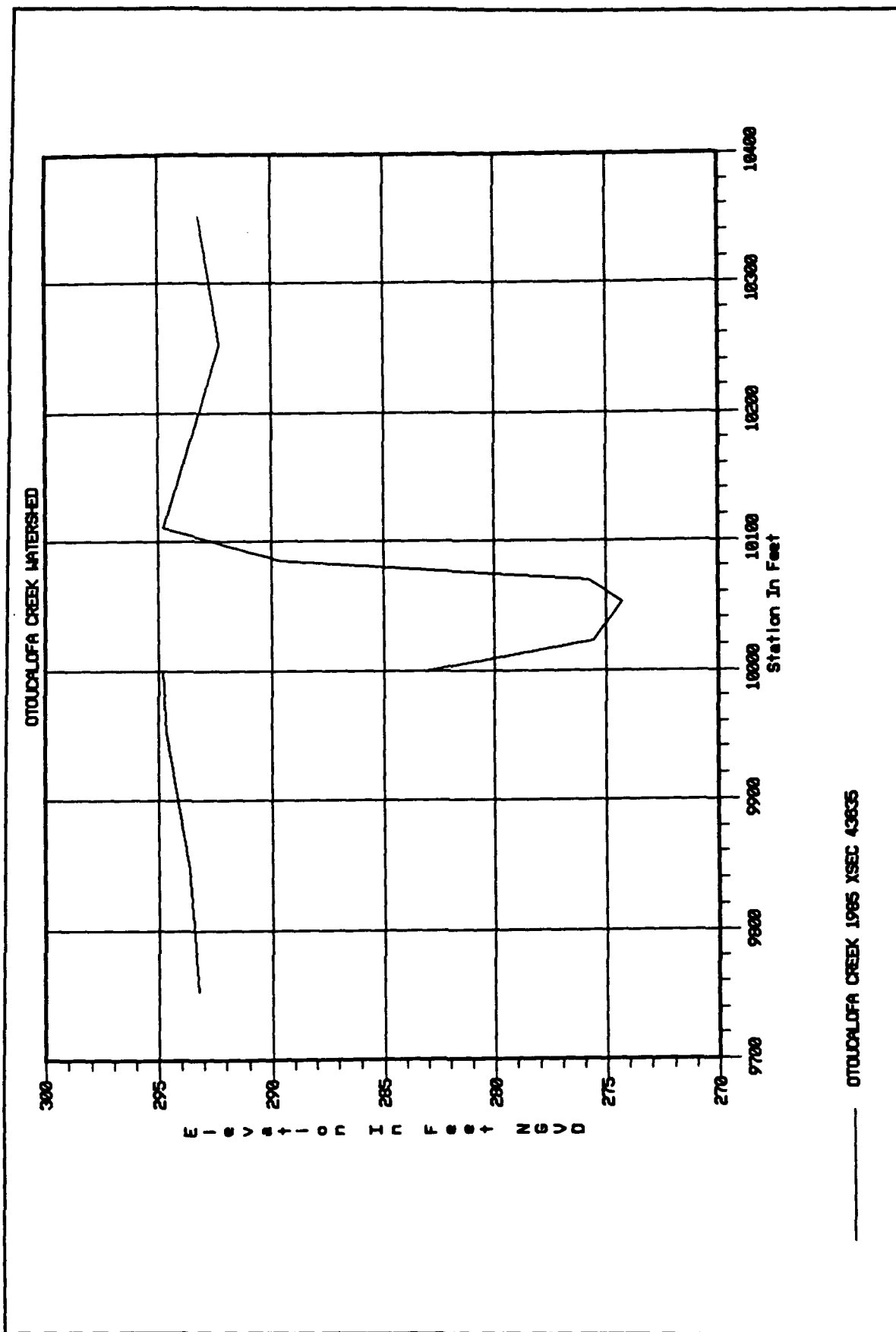


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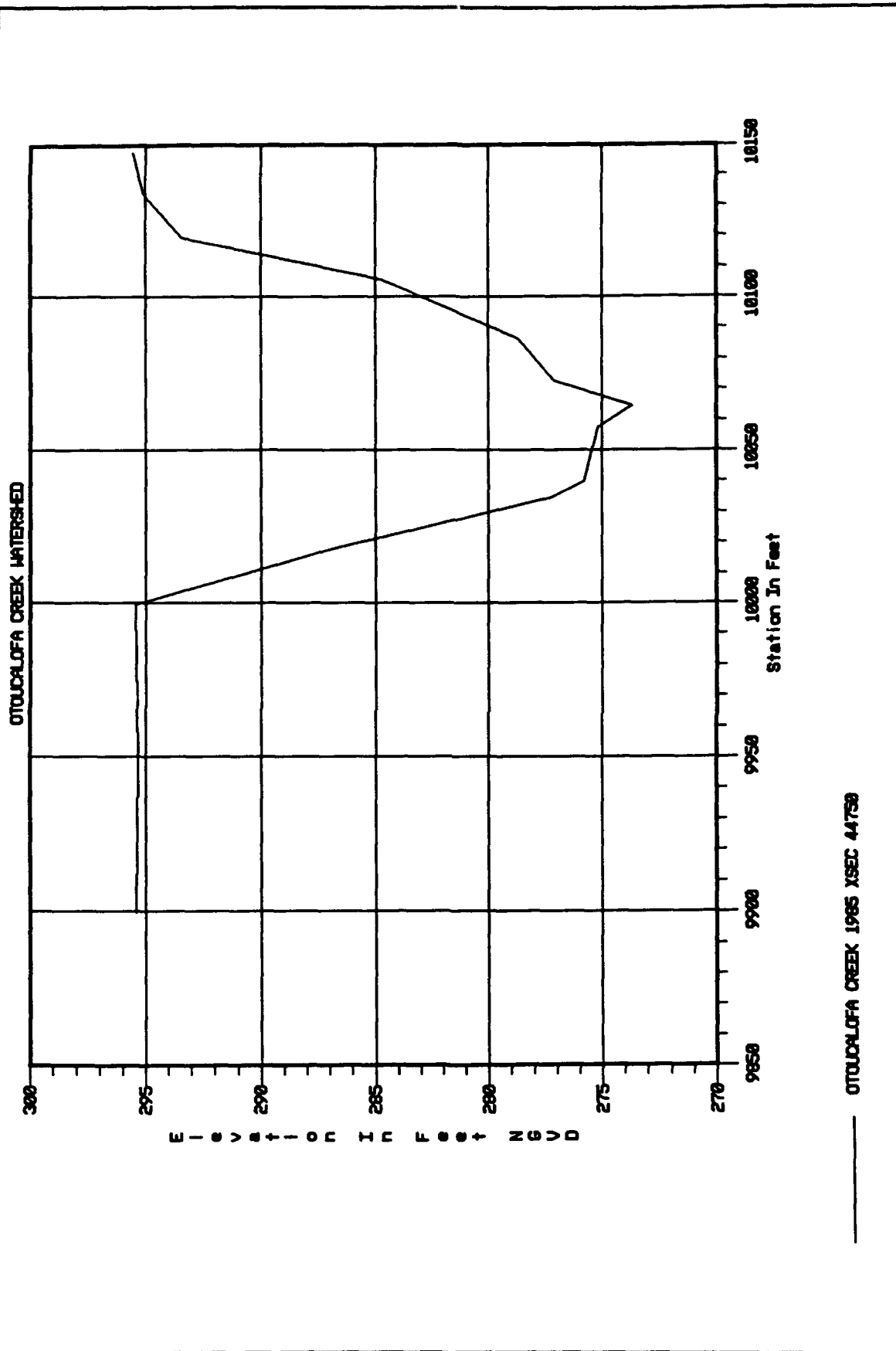
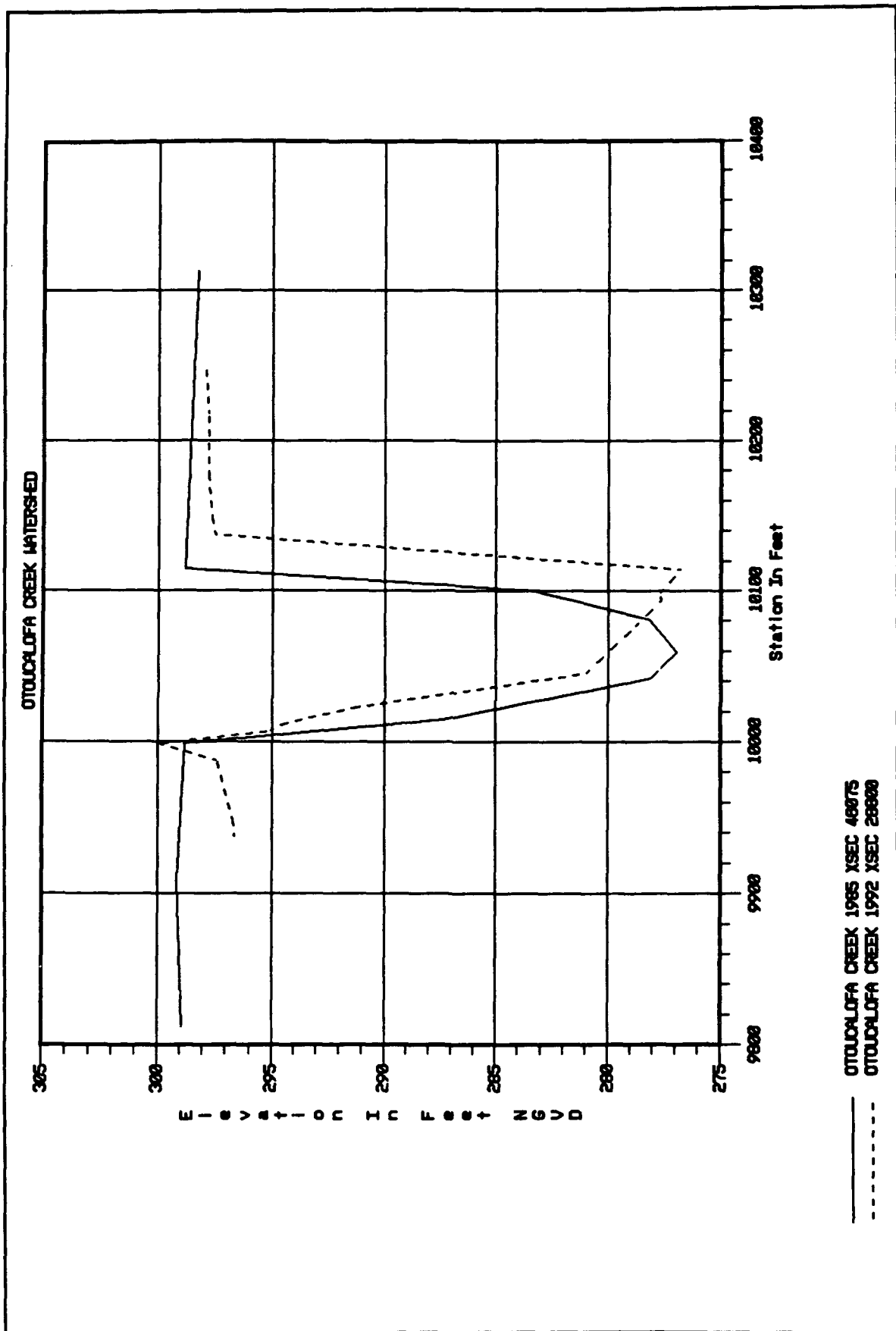


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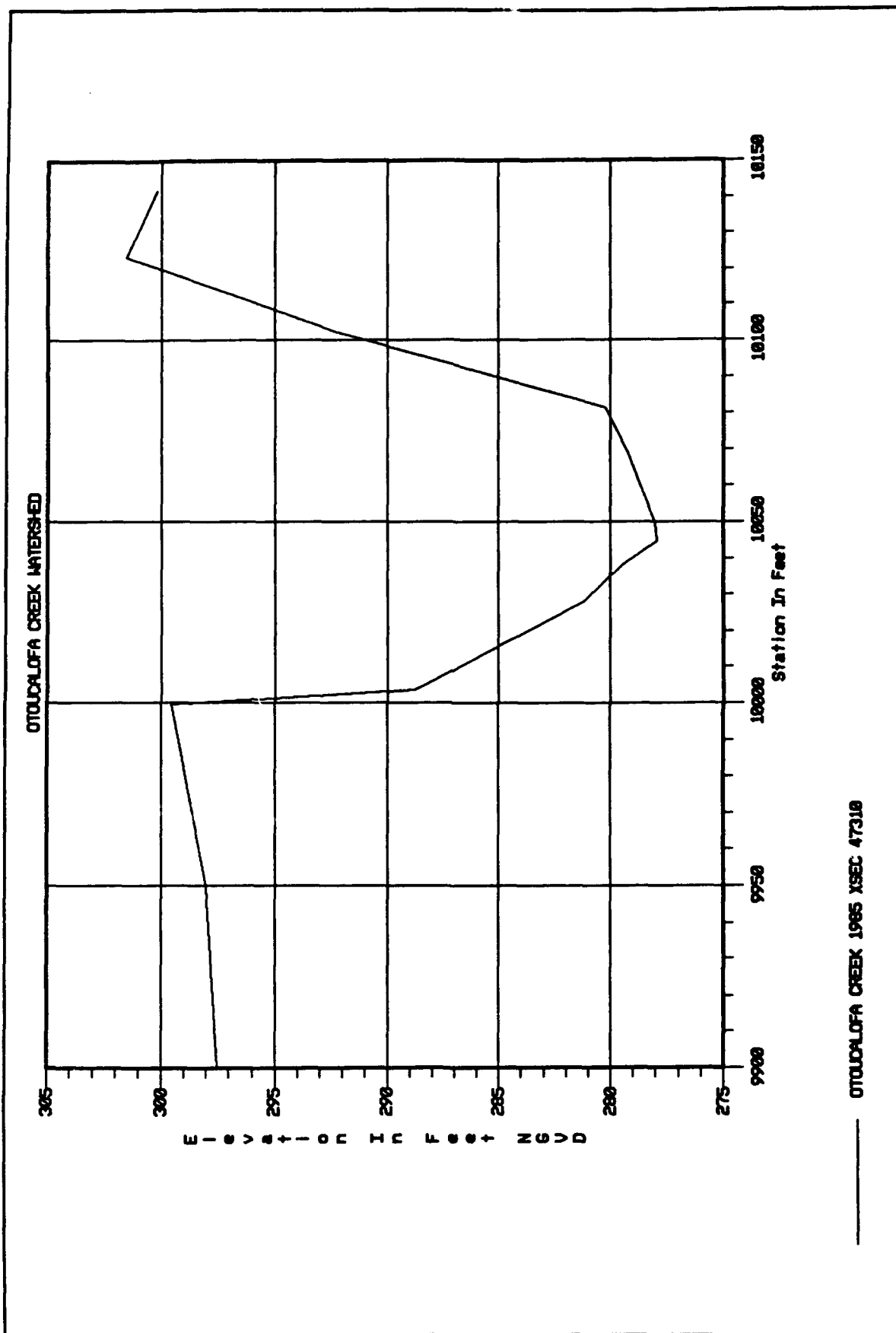
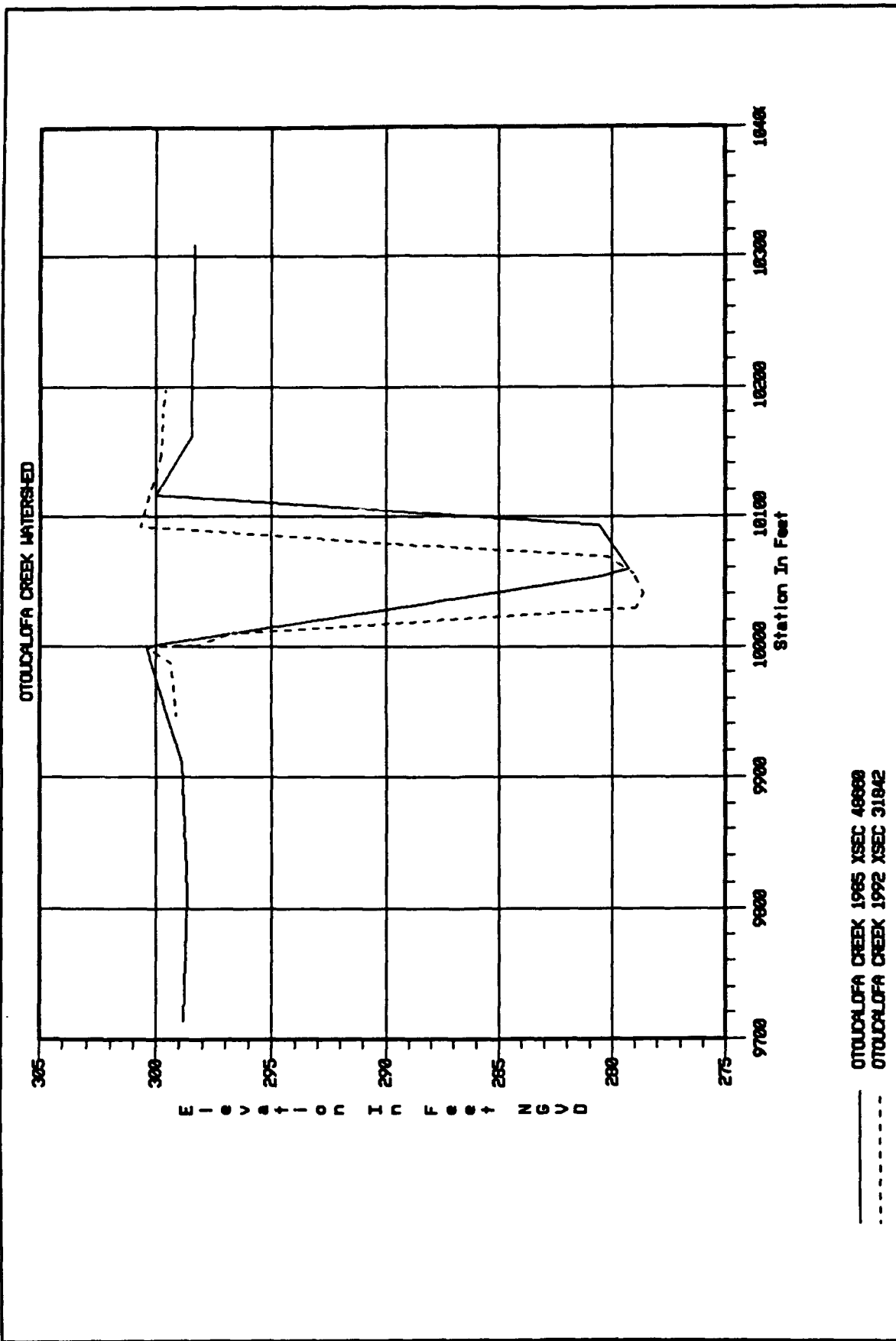


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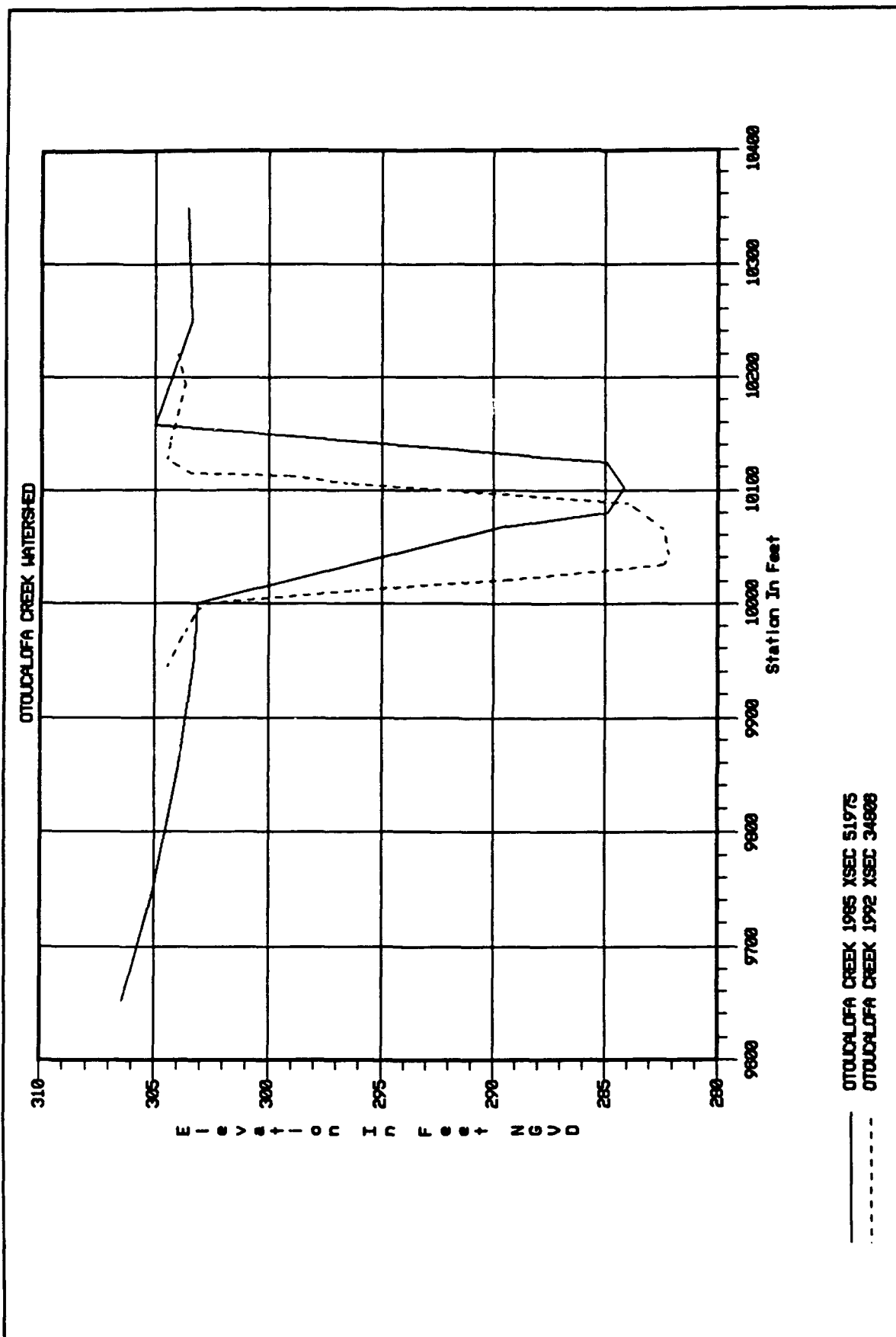
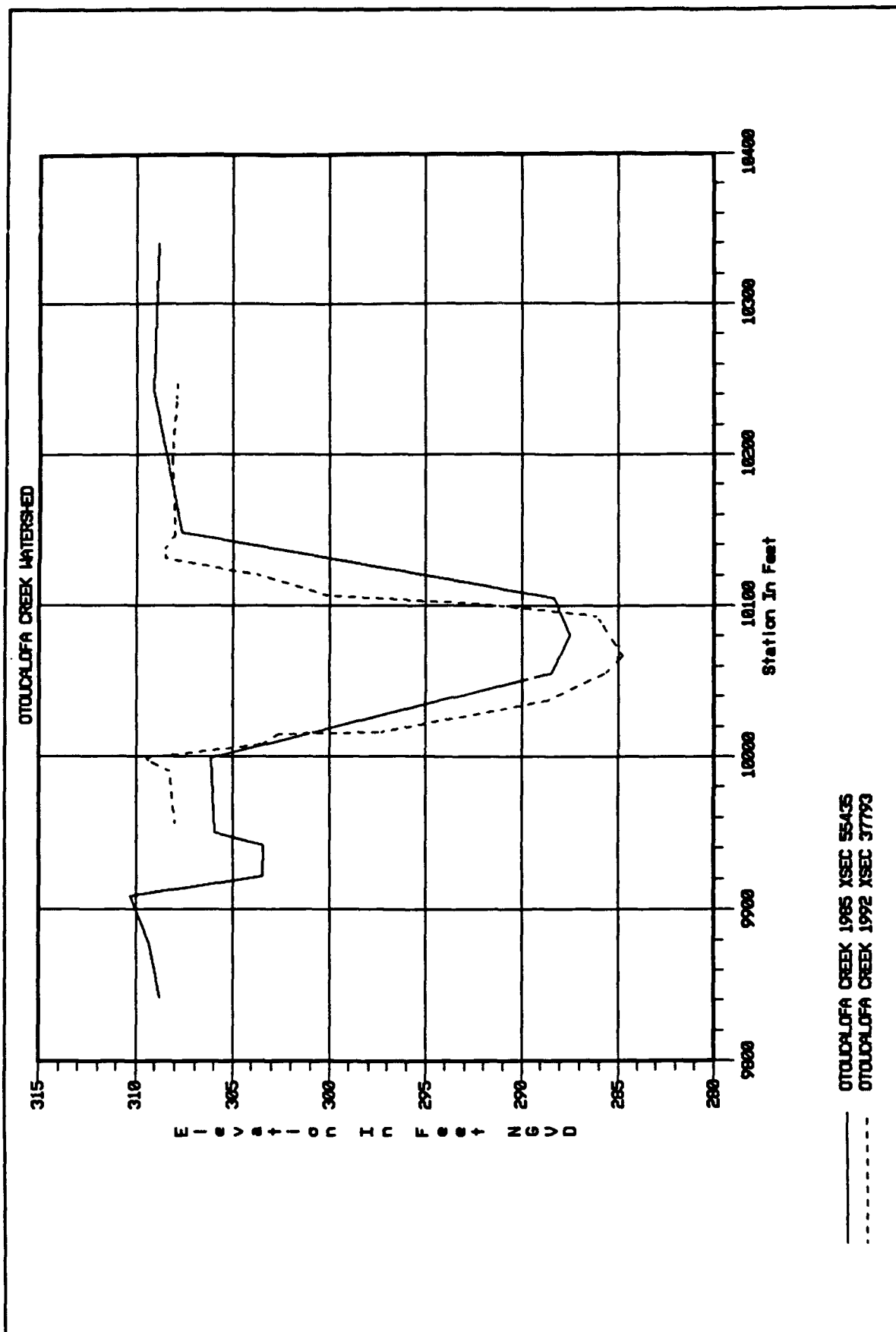


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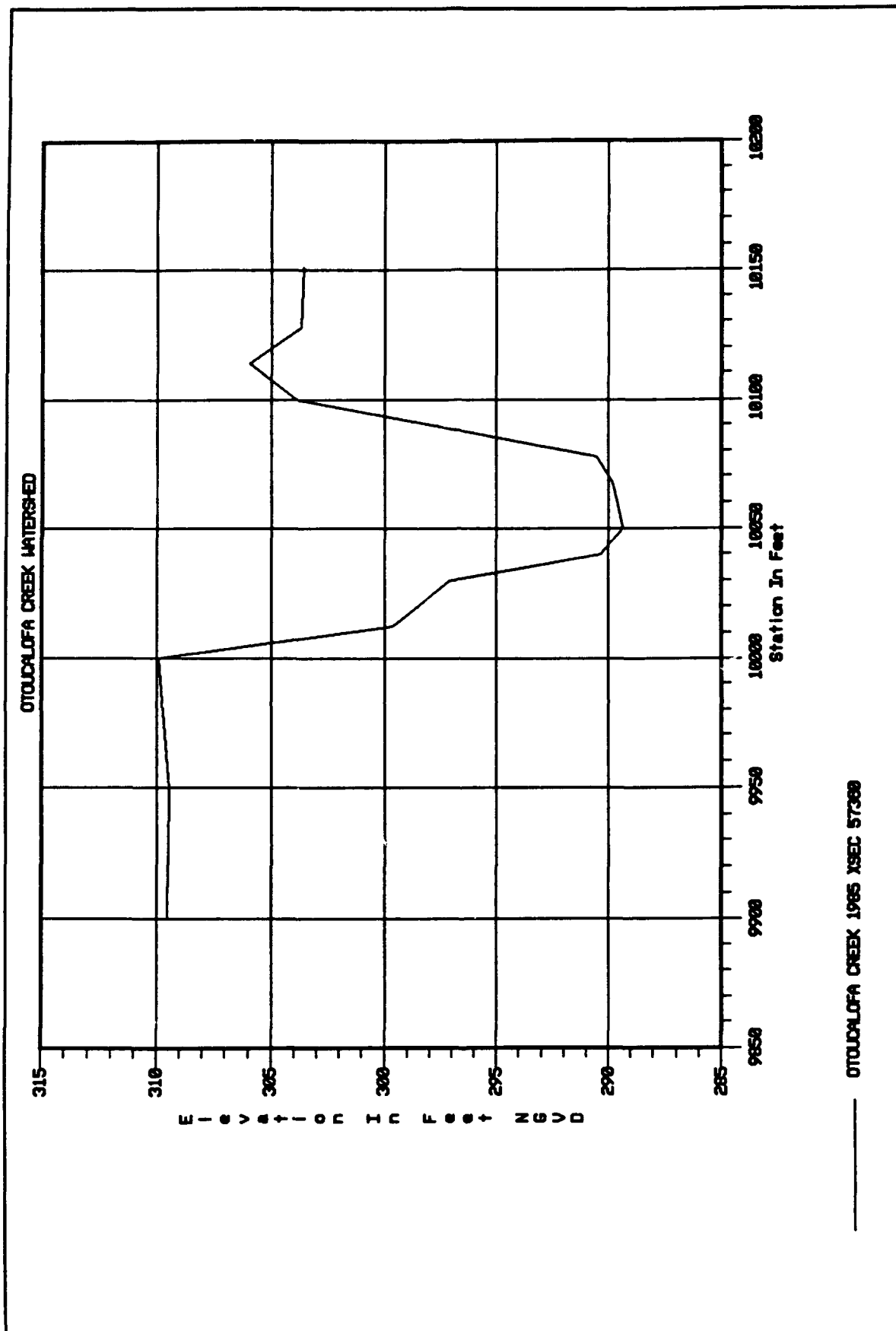
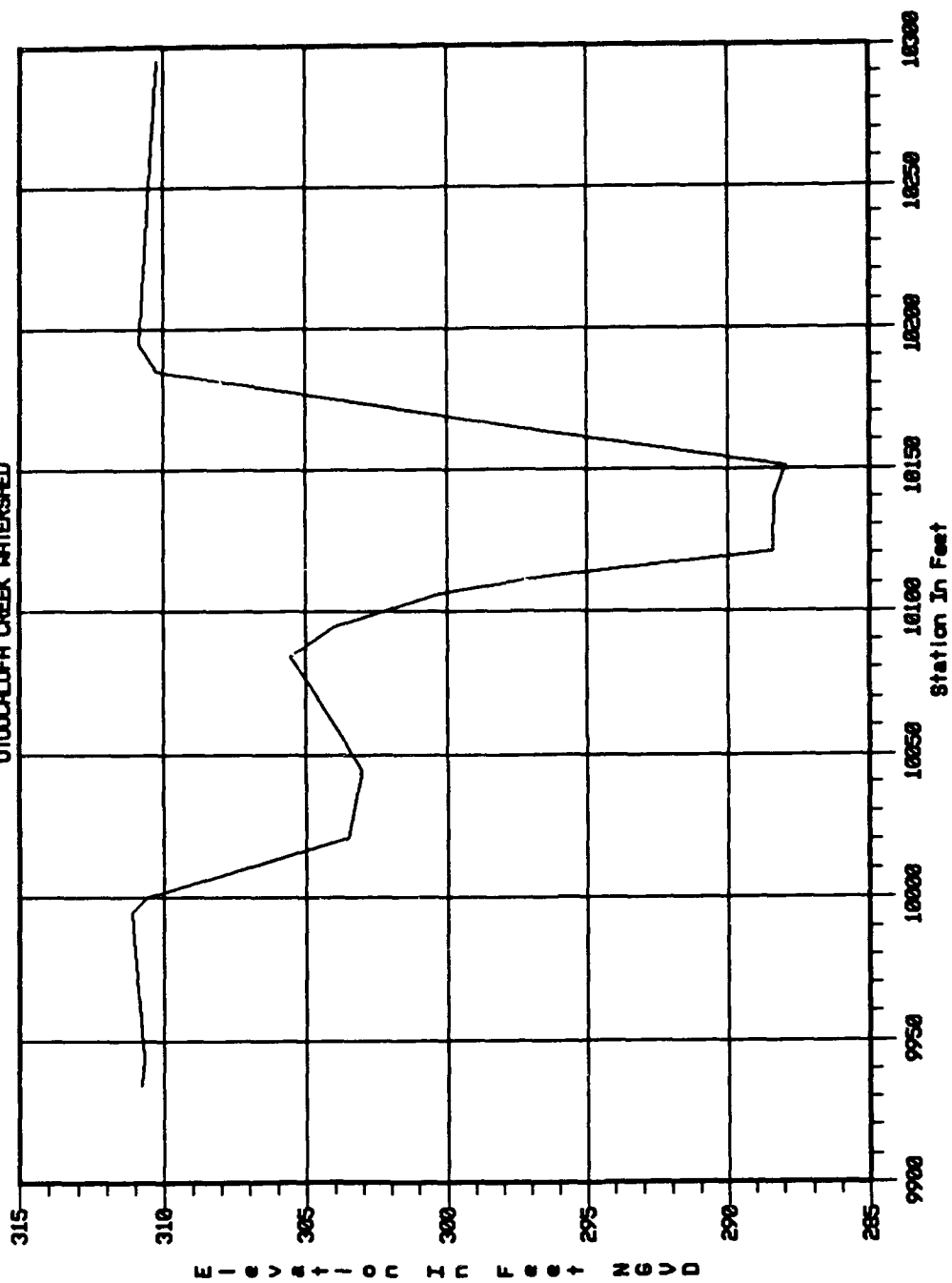


Plate C60

# OTOUALLOFA CREEK WATERSHED



OTOUALLOFA CREEK 1992 XSEC 40788

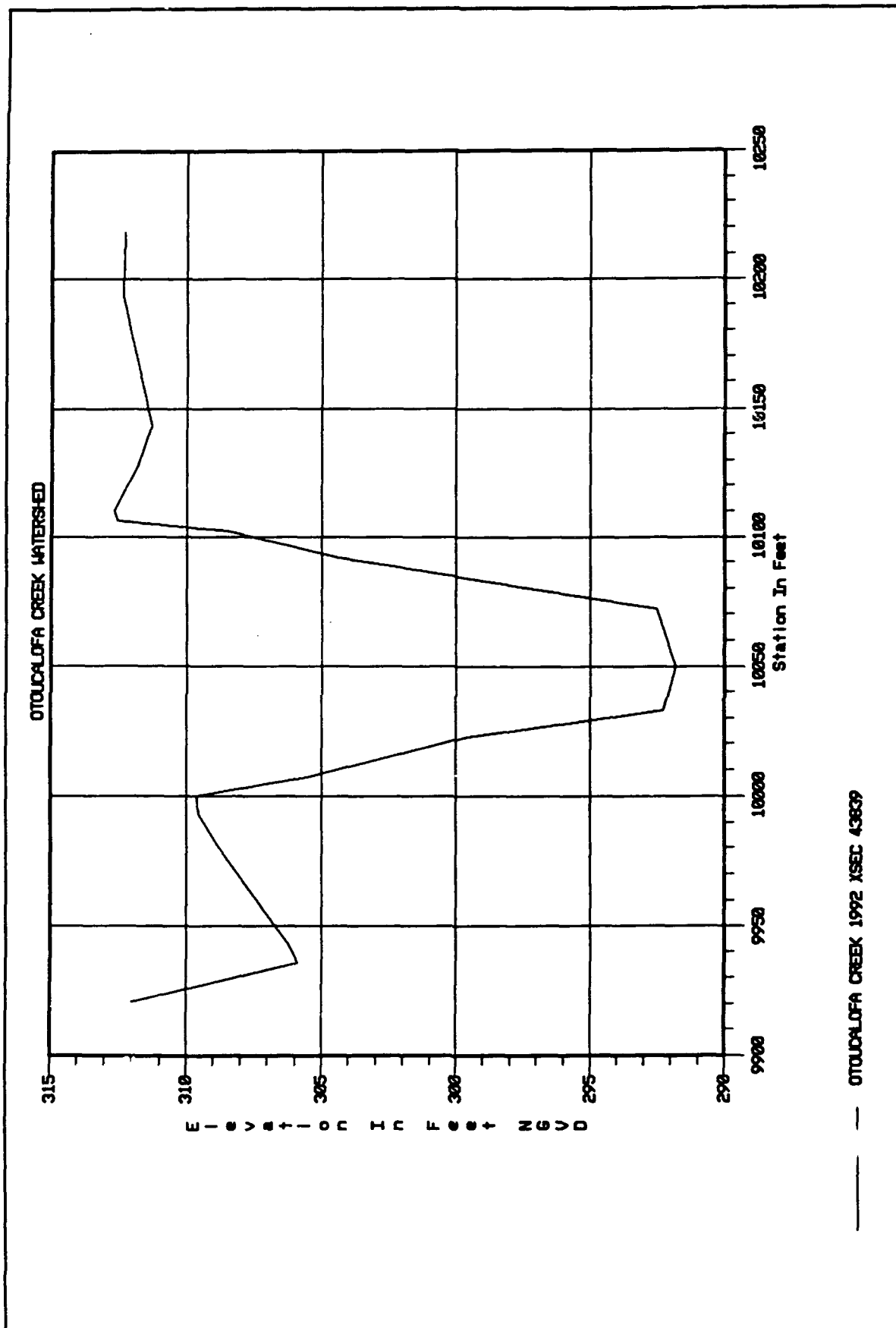
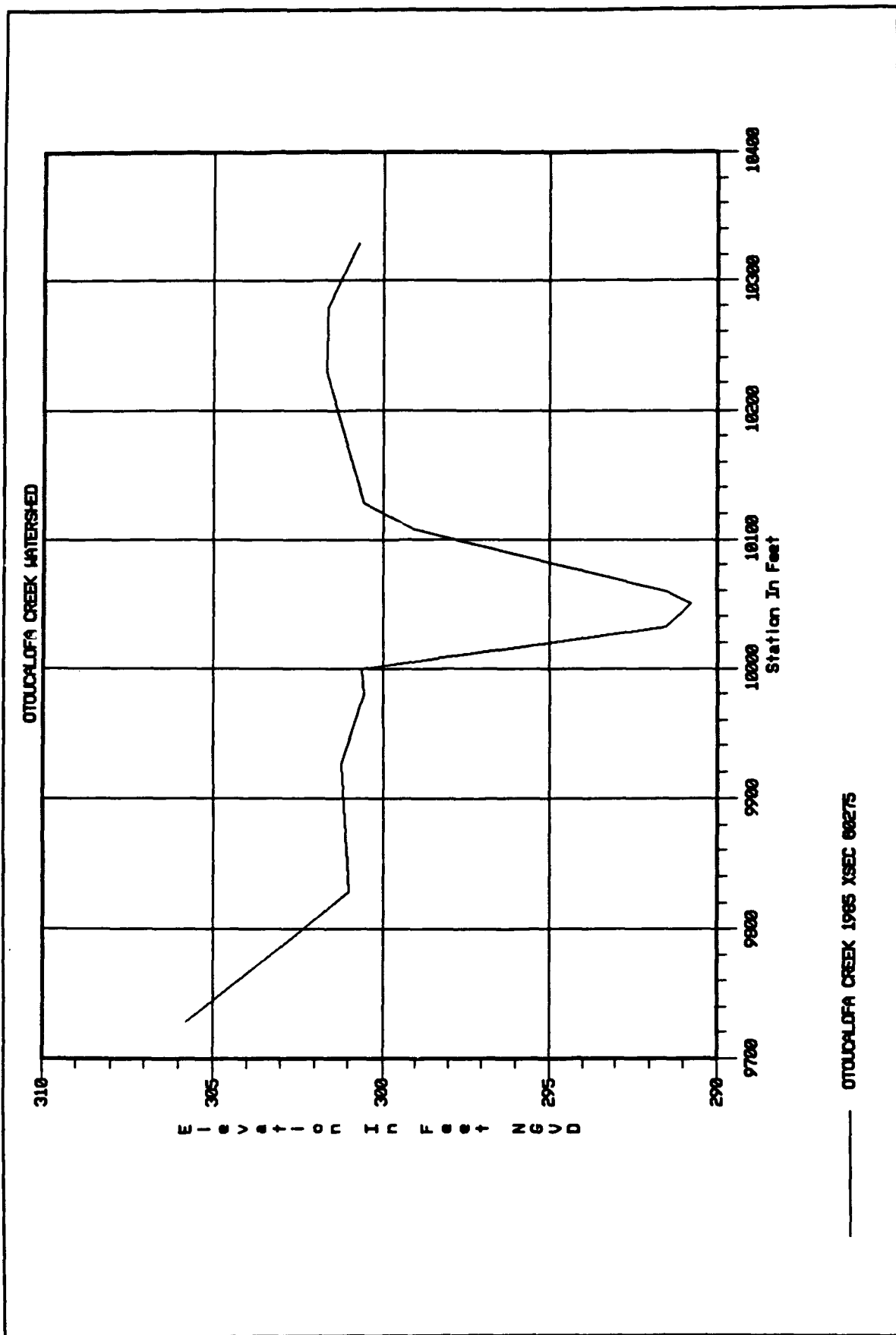


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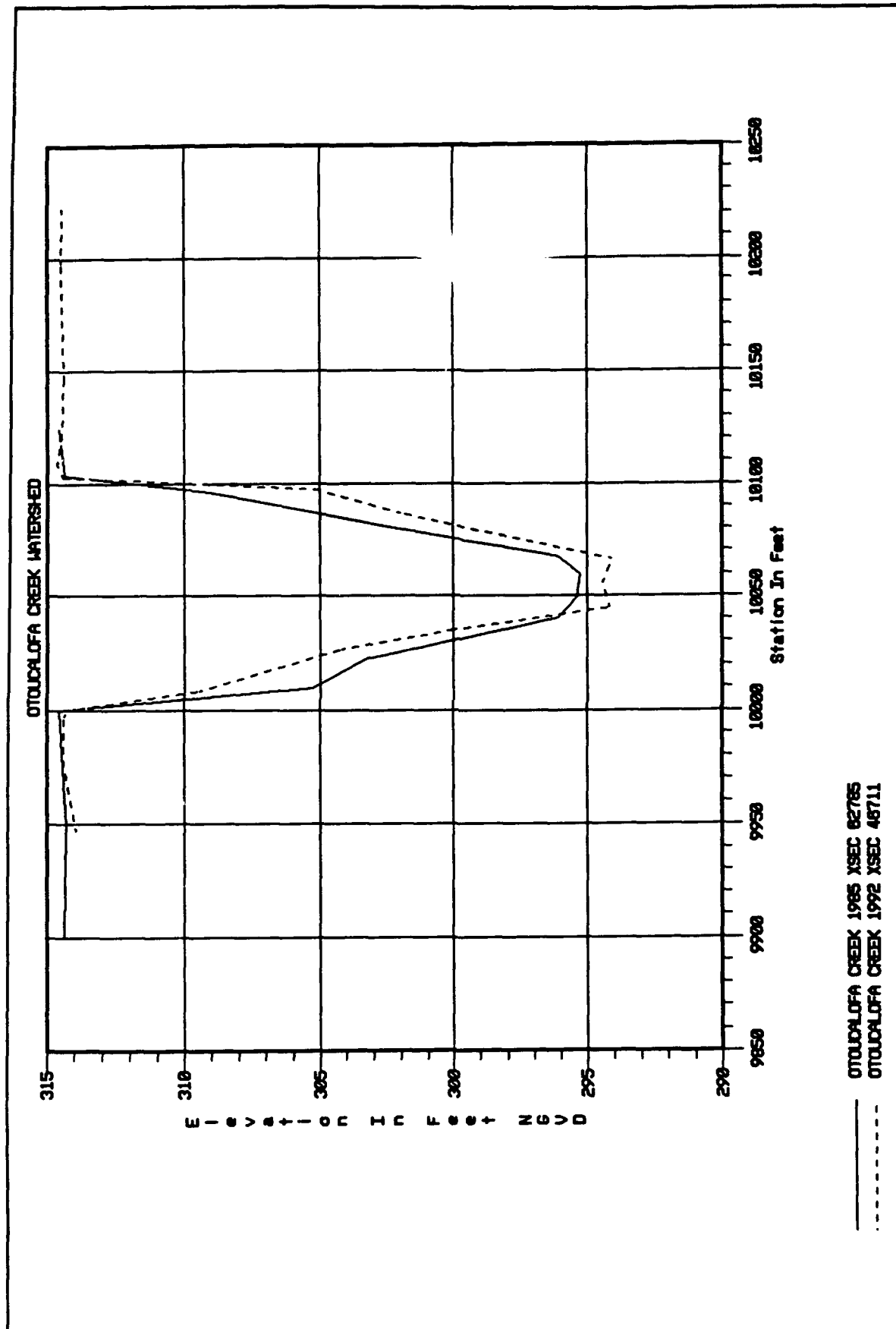
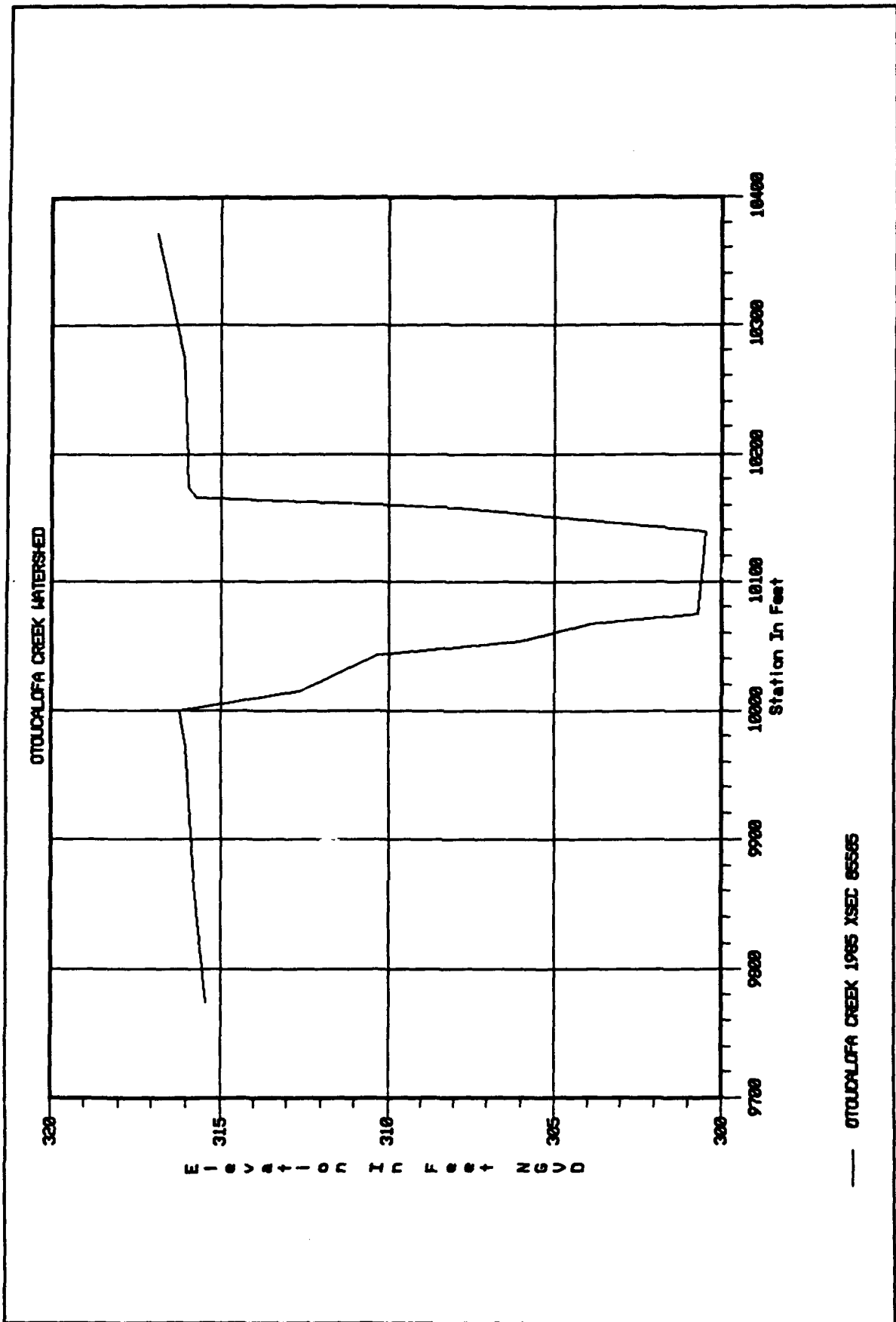


Plate C64





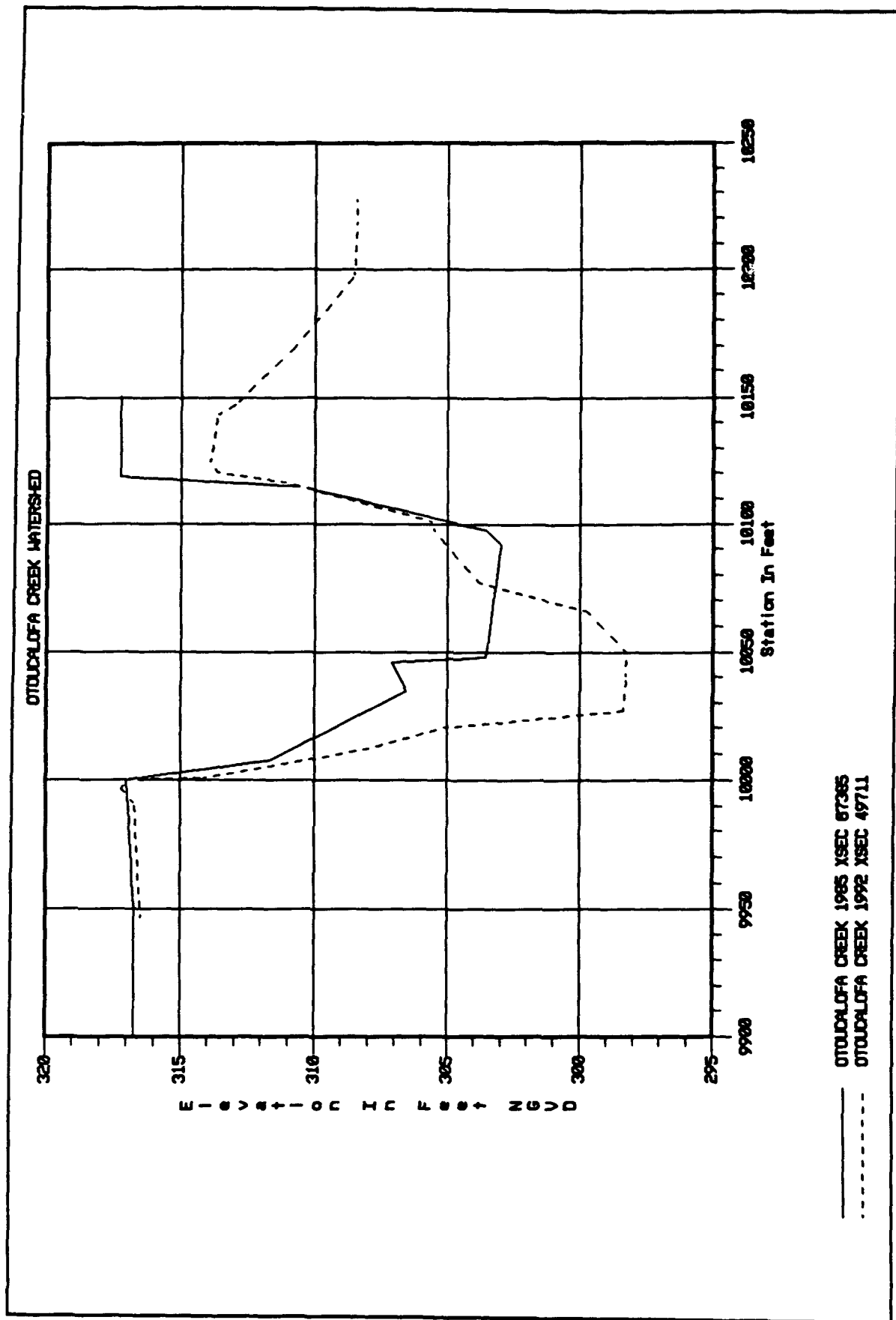
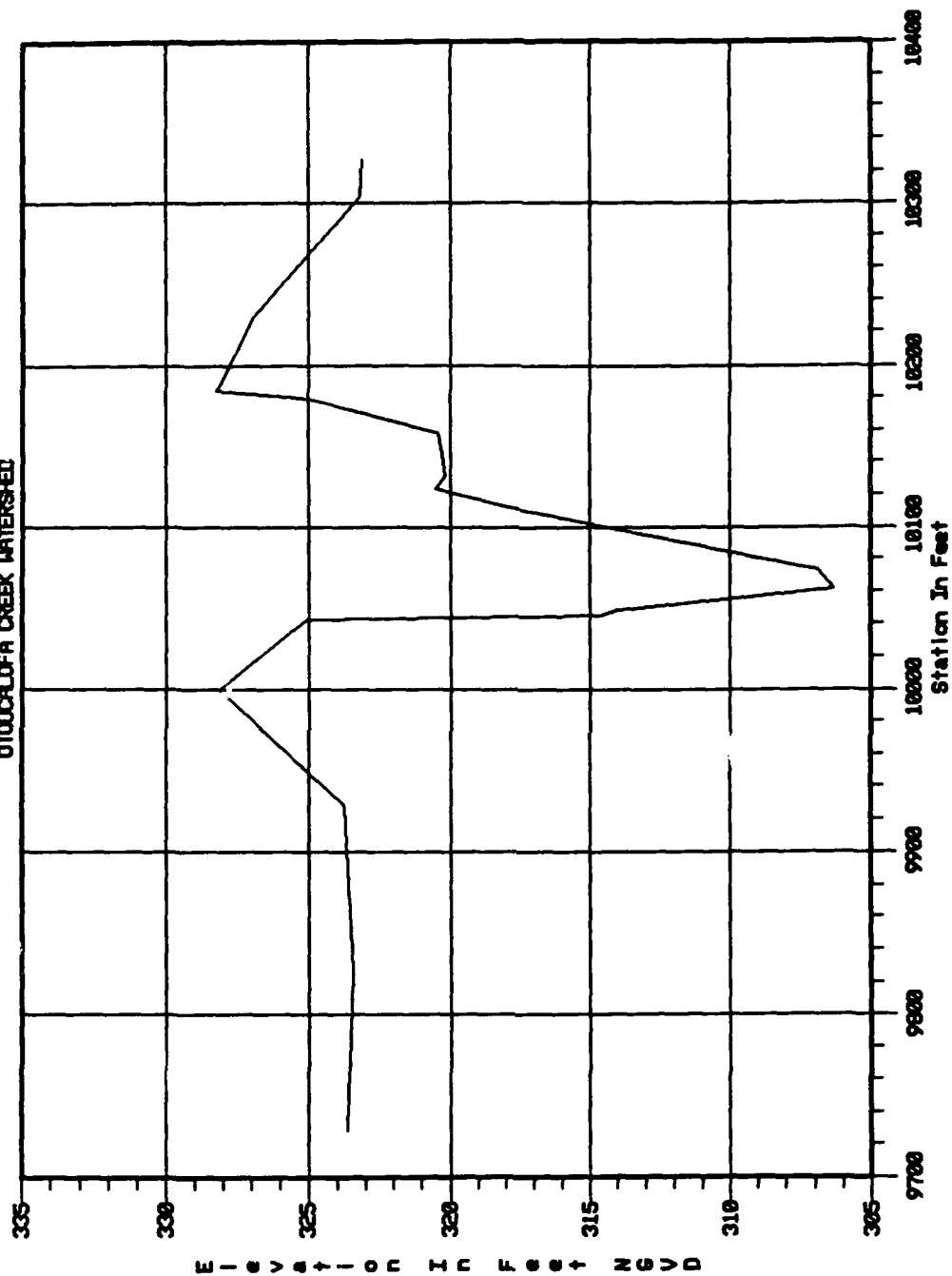


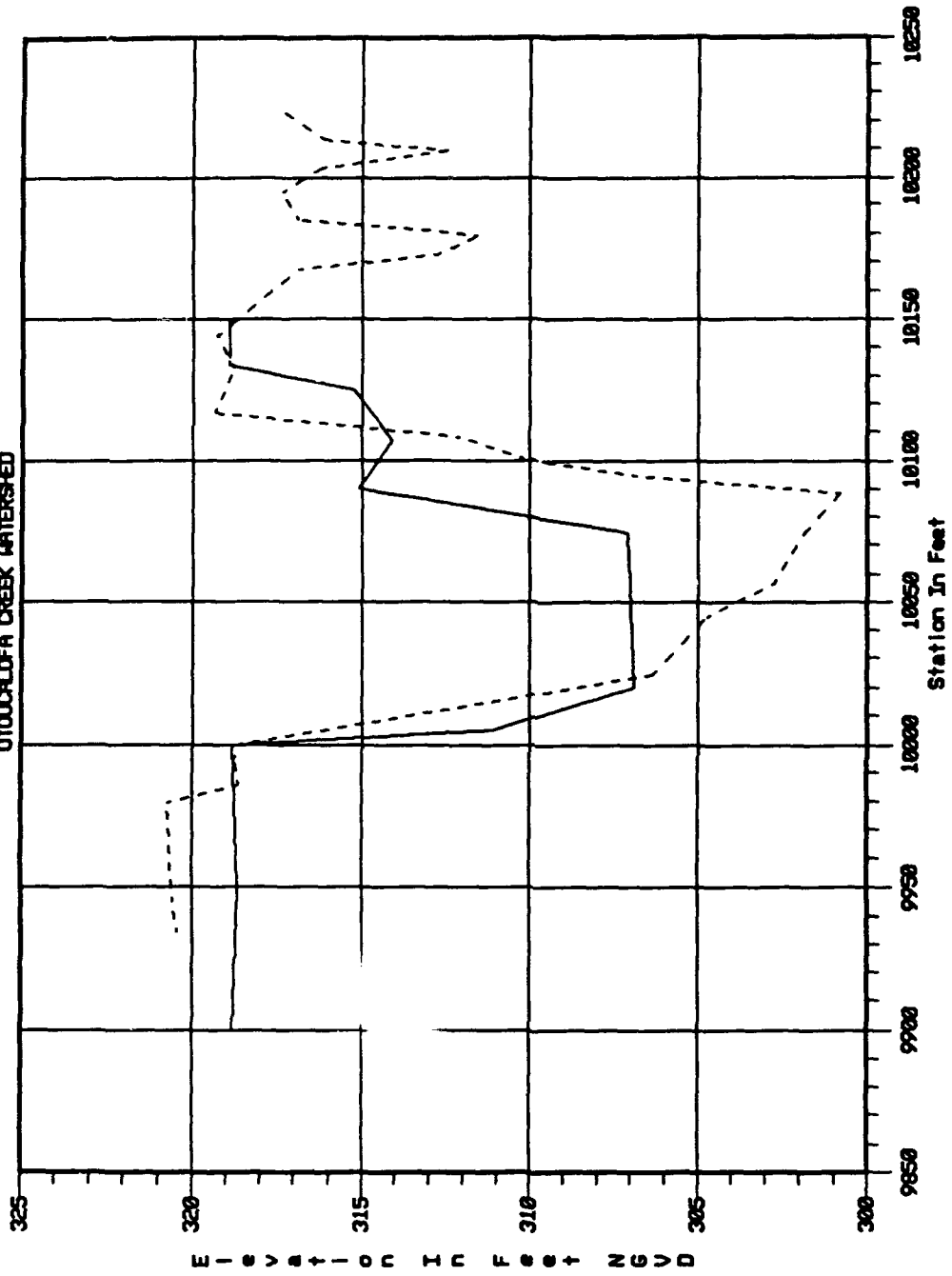
Plate C66

# OTTOLOLOFA CREEK WATERSHED

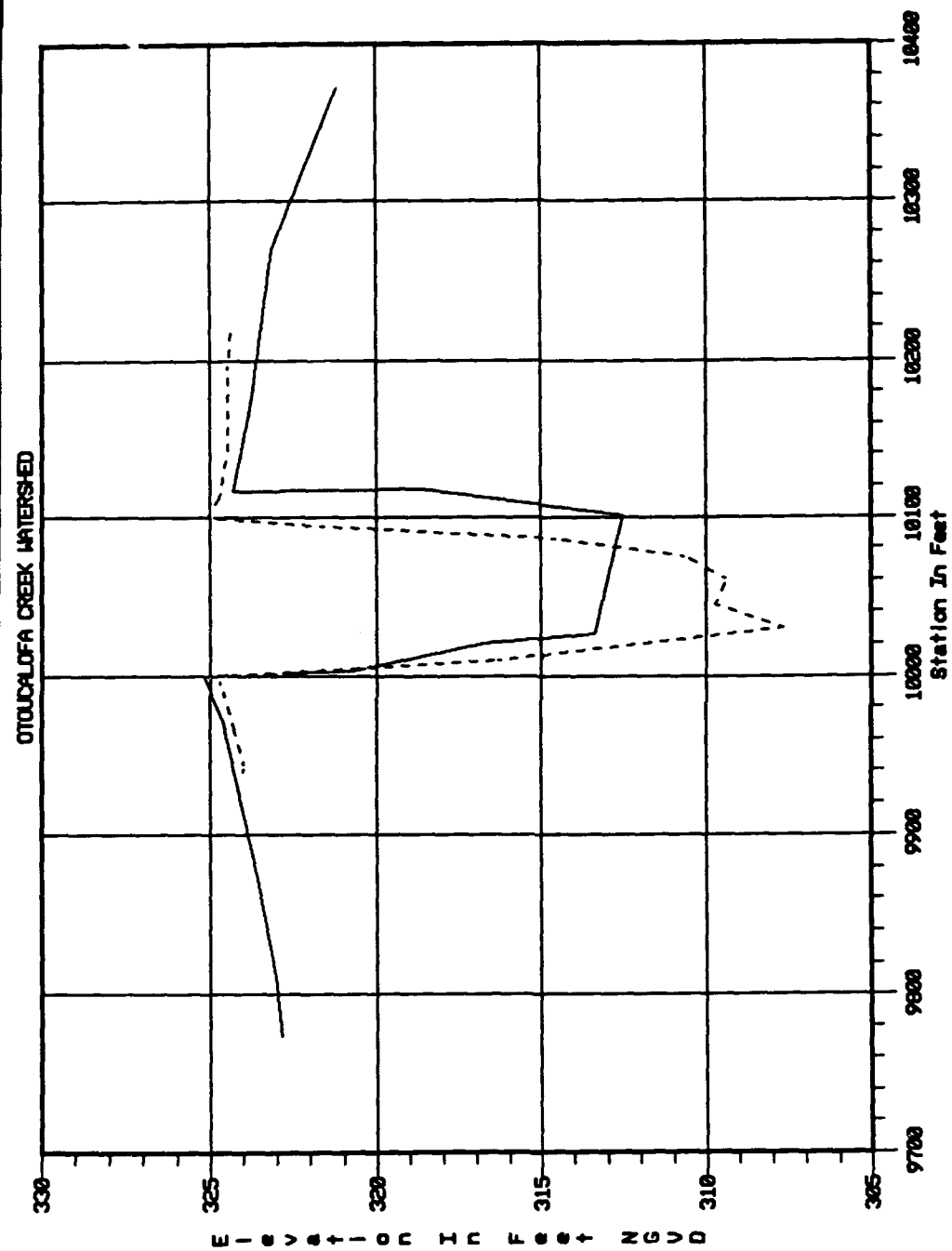


OTTOLOLOFA CREEK 1965 XSEC 71085

# OTOUALOFA CREEK WATERSHED



OTOUALOFA CREEK 1985 XSEC 70585  
OTOUALOFA CREEK 1992 XSEC 52690



OTOLUALOFA CREEK 1985 XSEC 73750  
OTOLUALOFA CREEK 1992 XSEC 55547

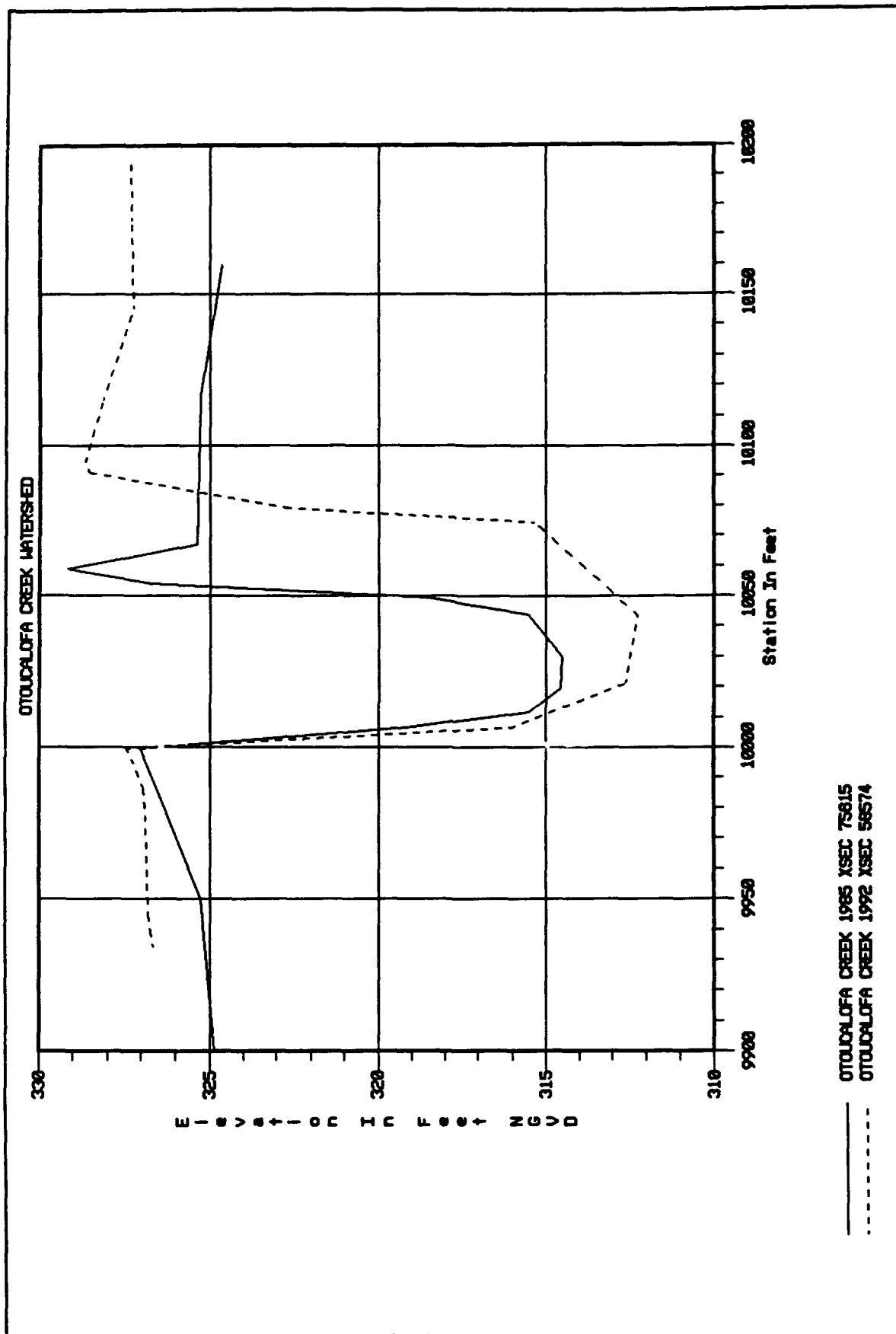
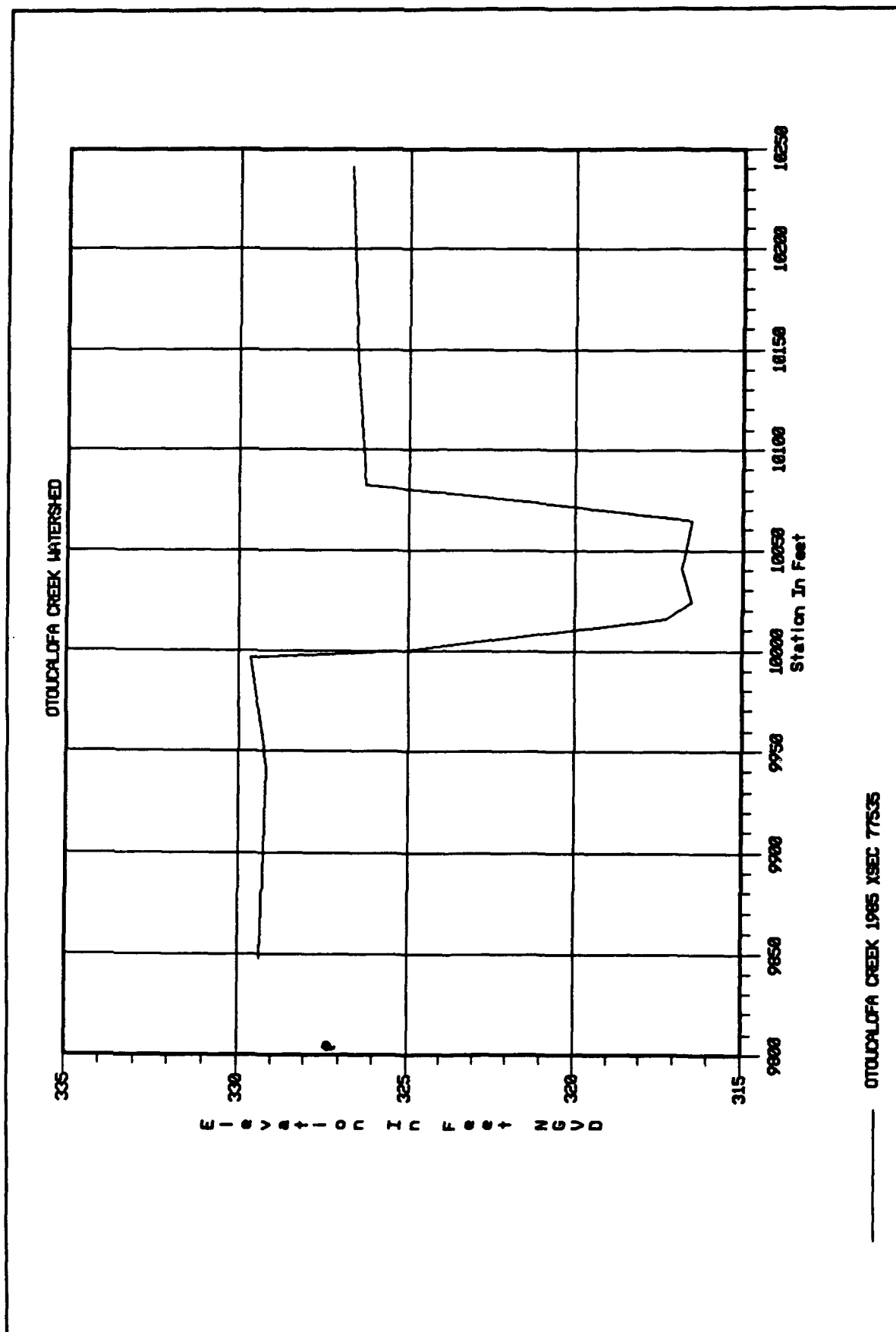


Plate C70



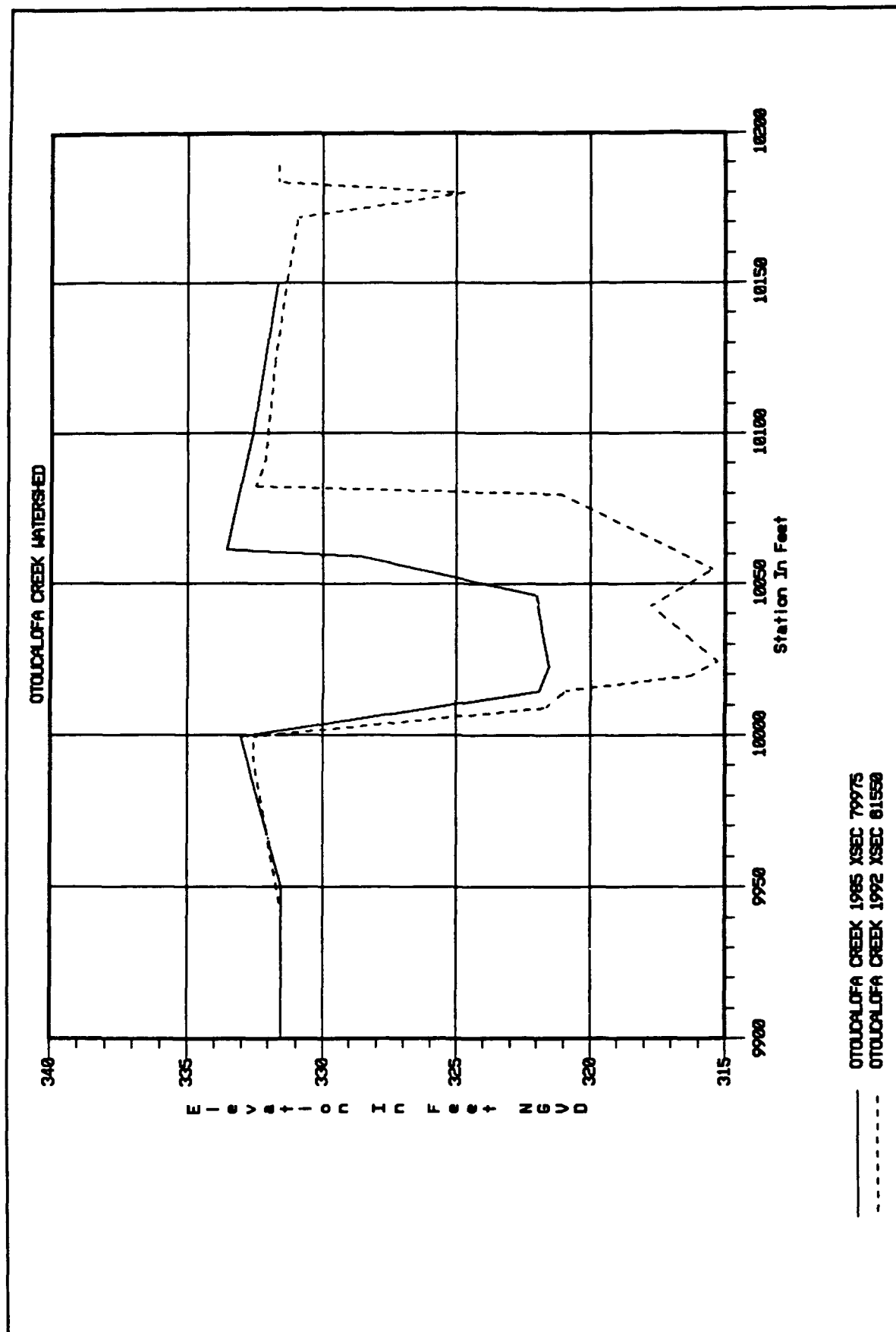
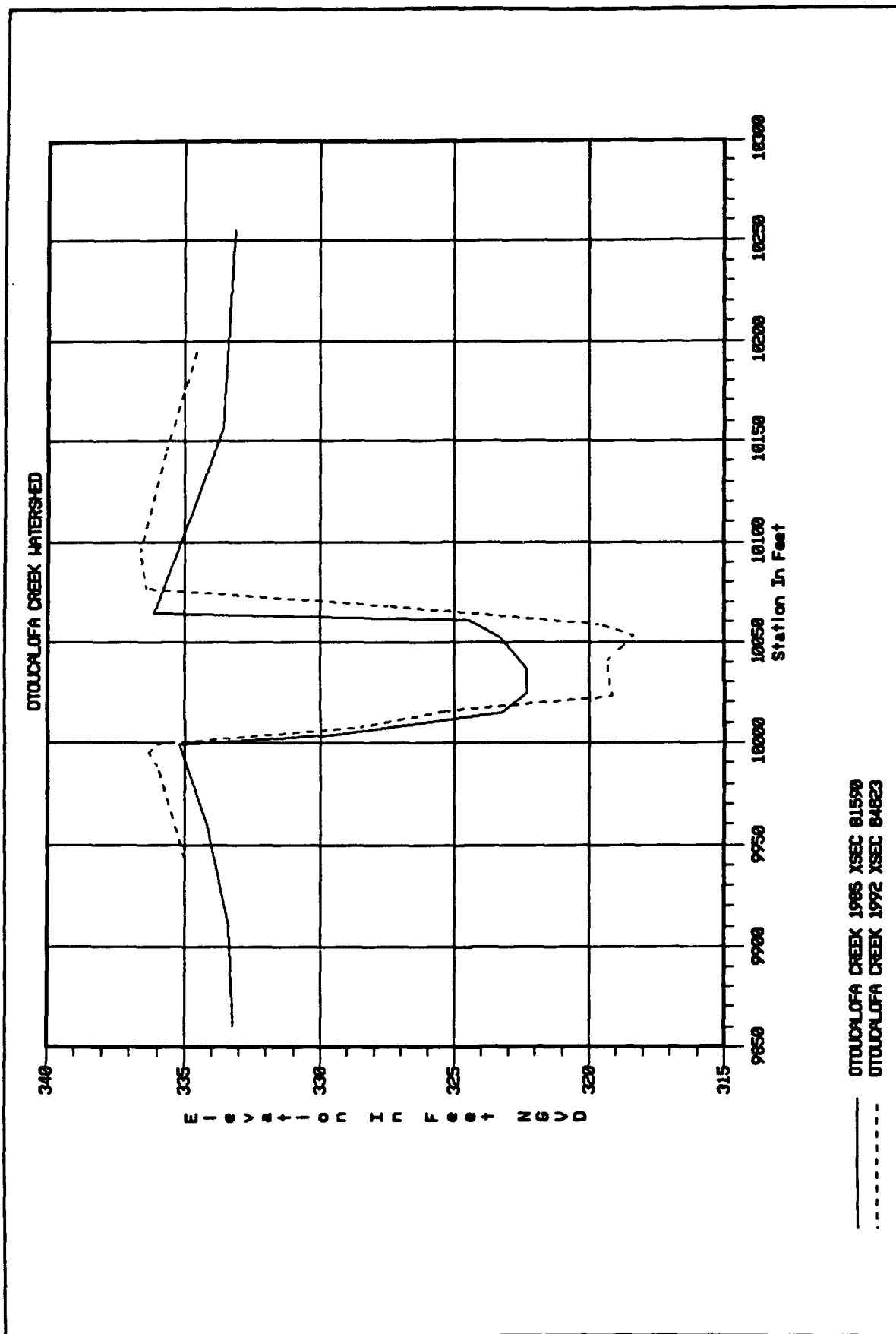


Plate C72





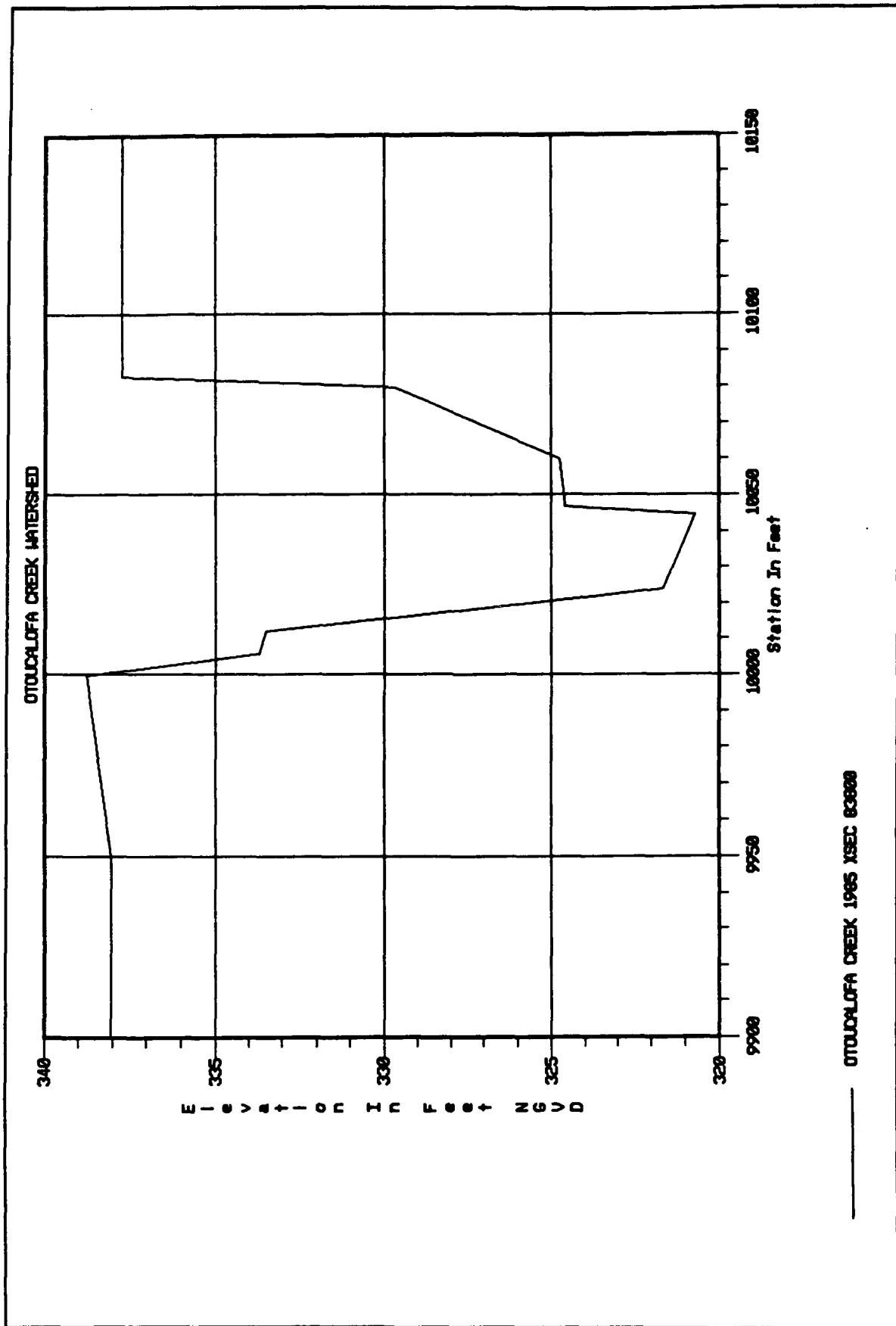
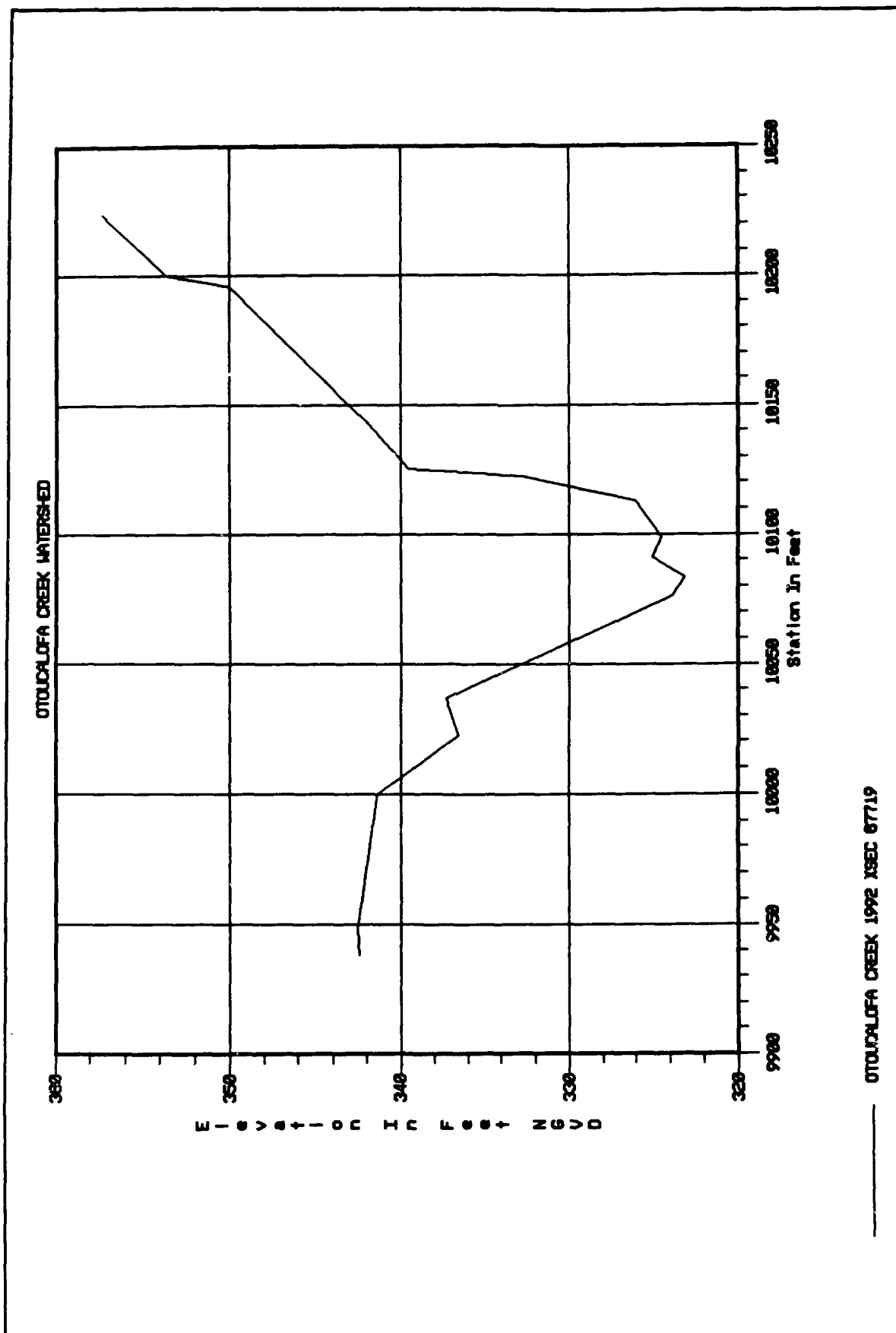


Plate C74



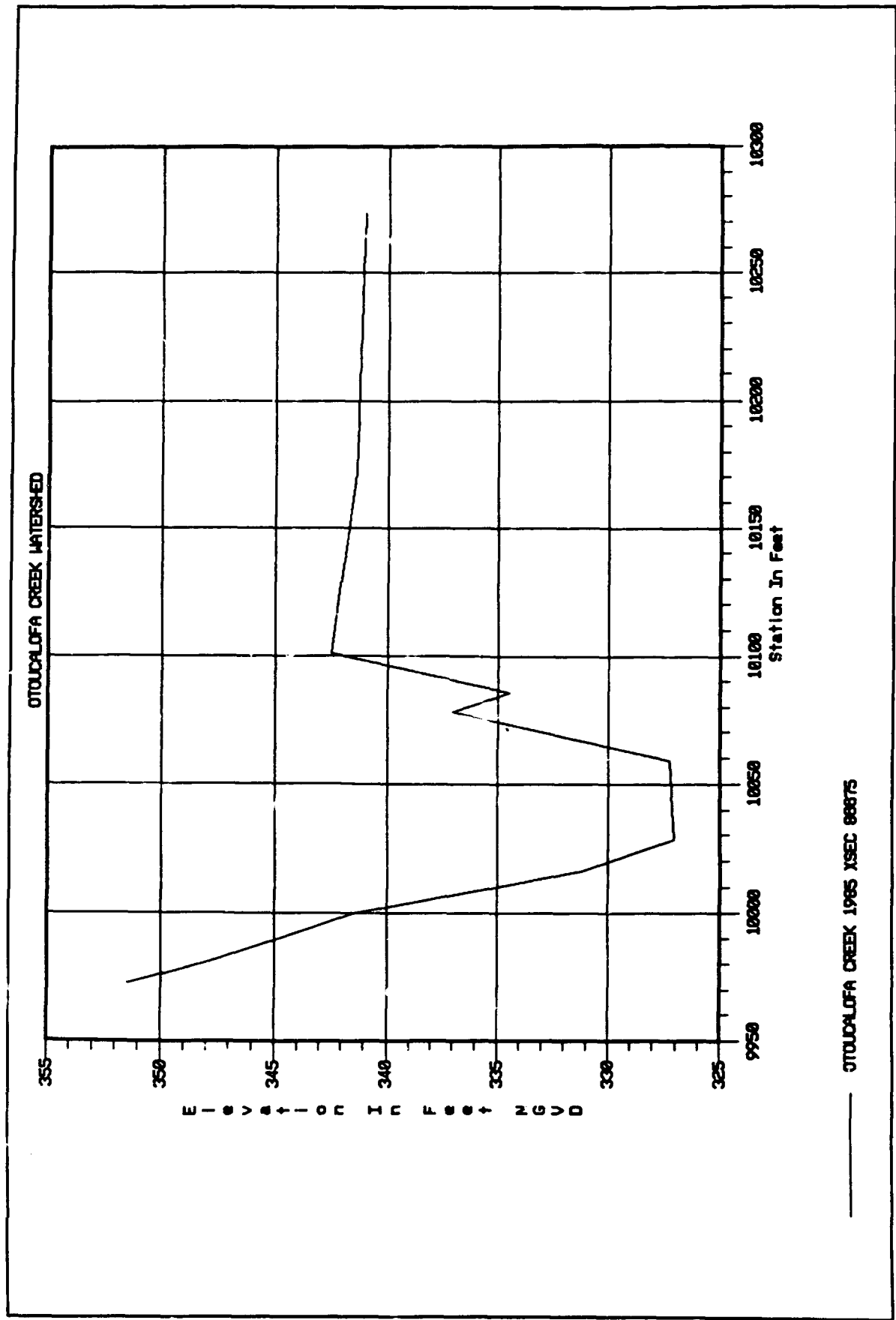
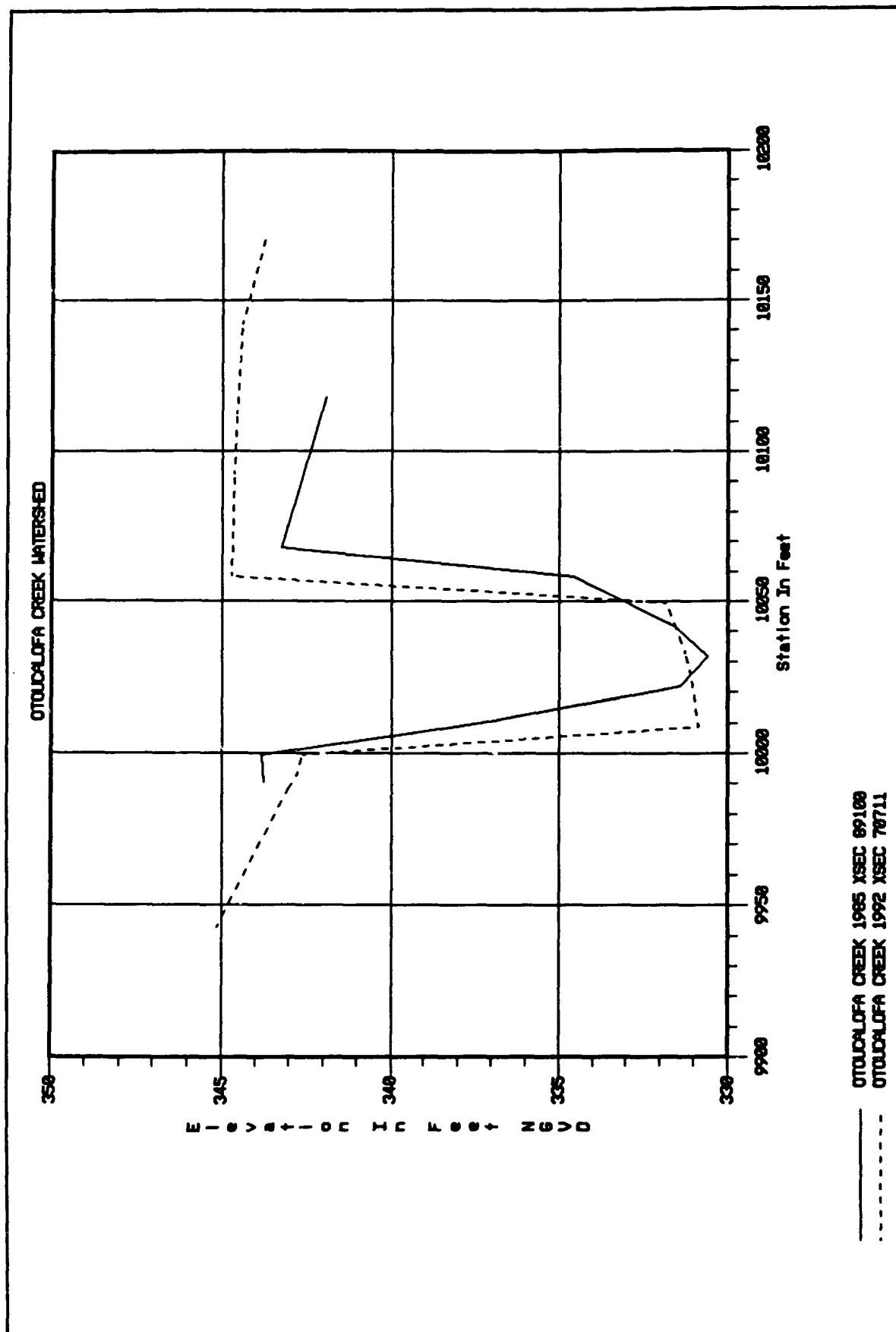


Plate C76



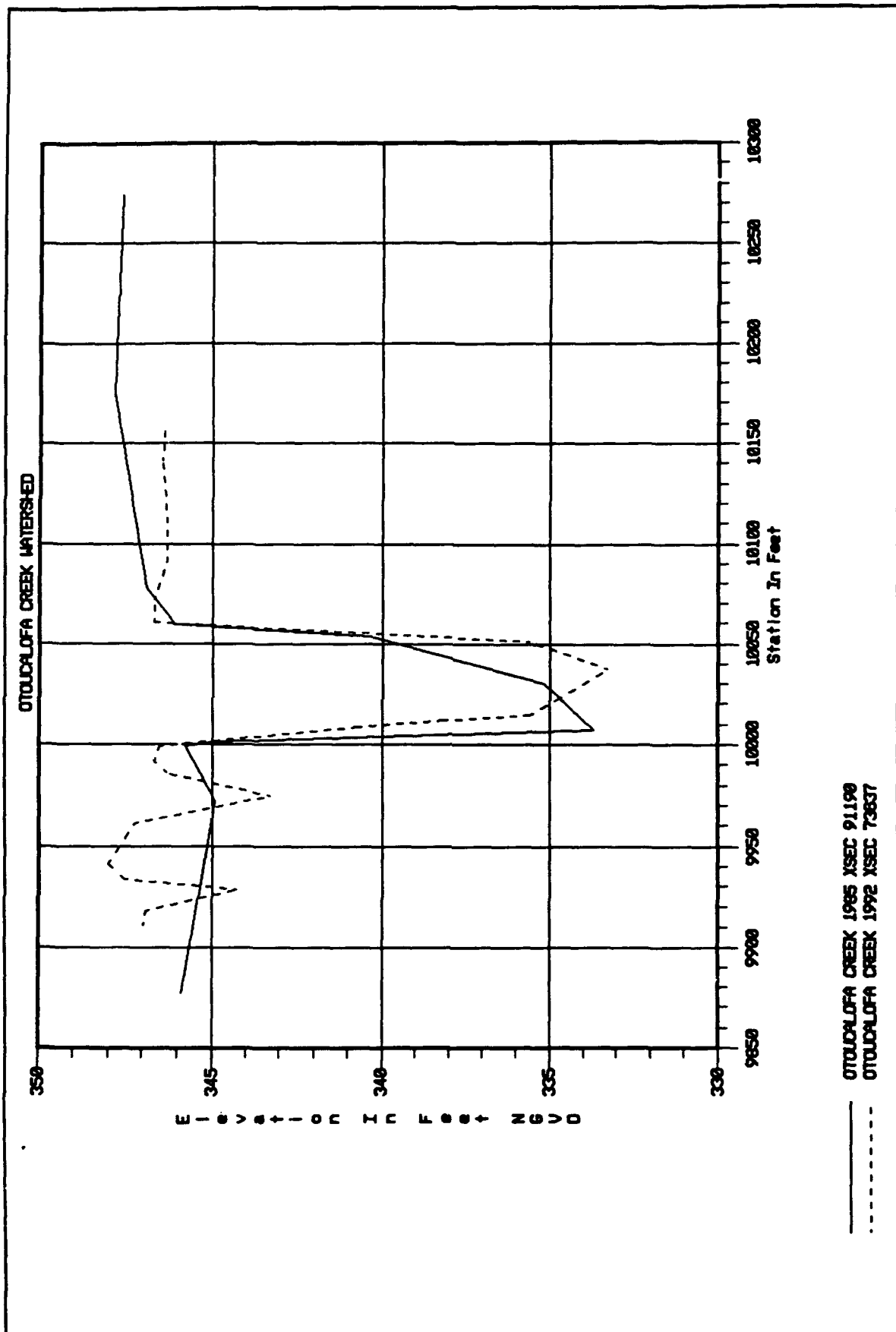
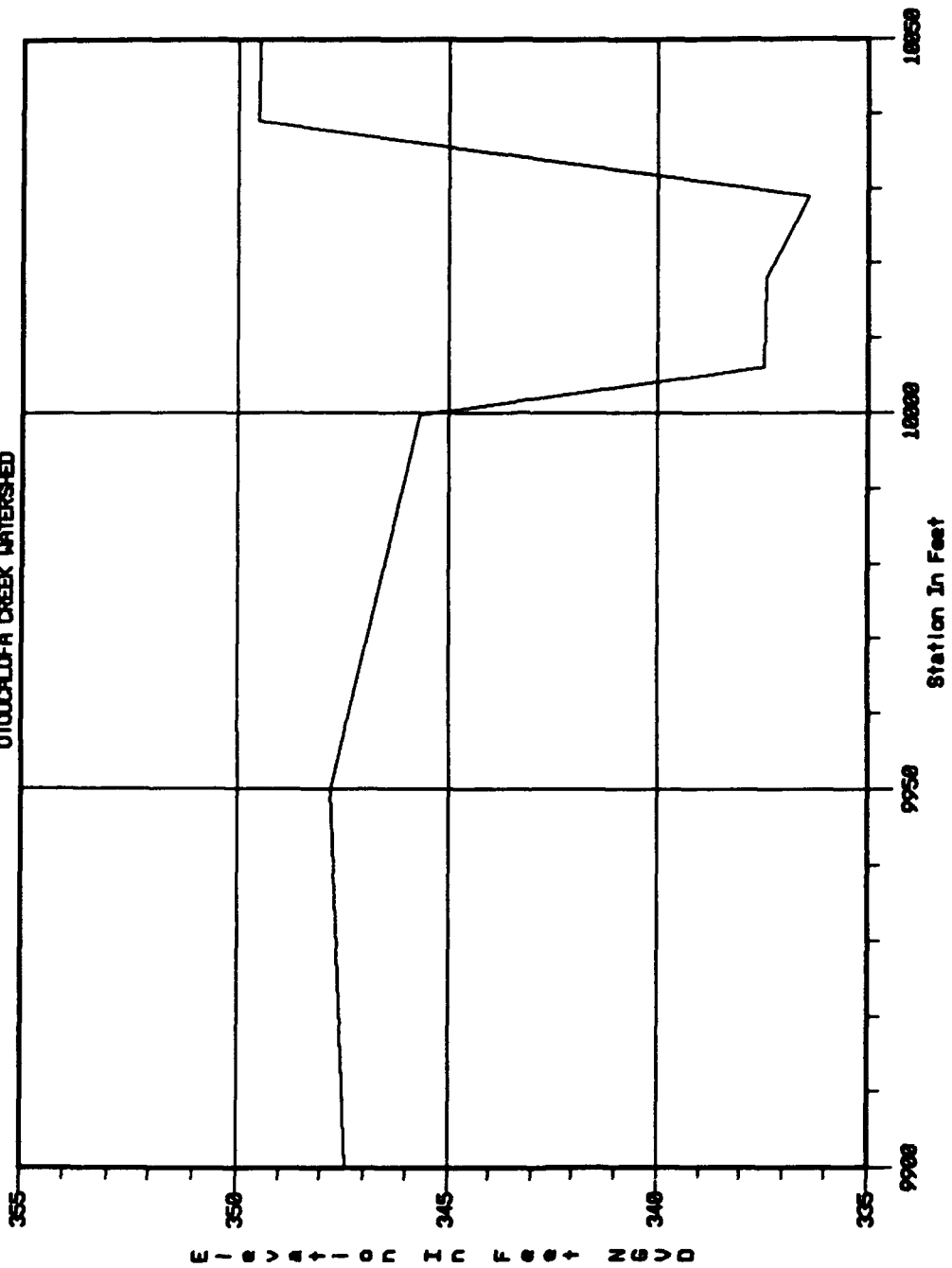


Plate C78

# OTOUCHLOFA CREEK WATERSHED



OTOUCHLOFA CREEK 1985 XSEC 92985

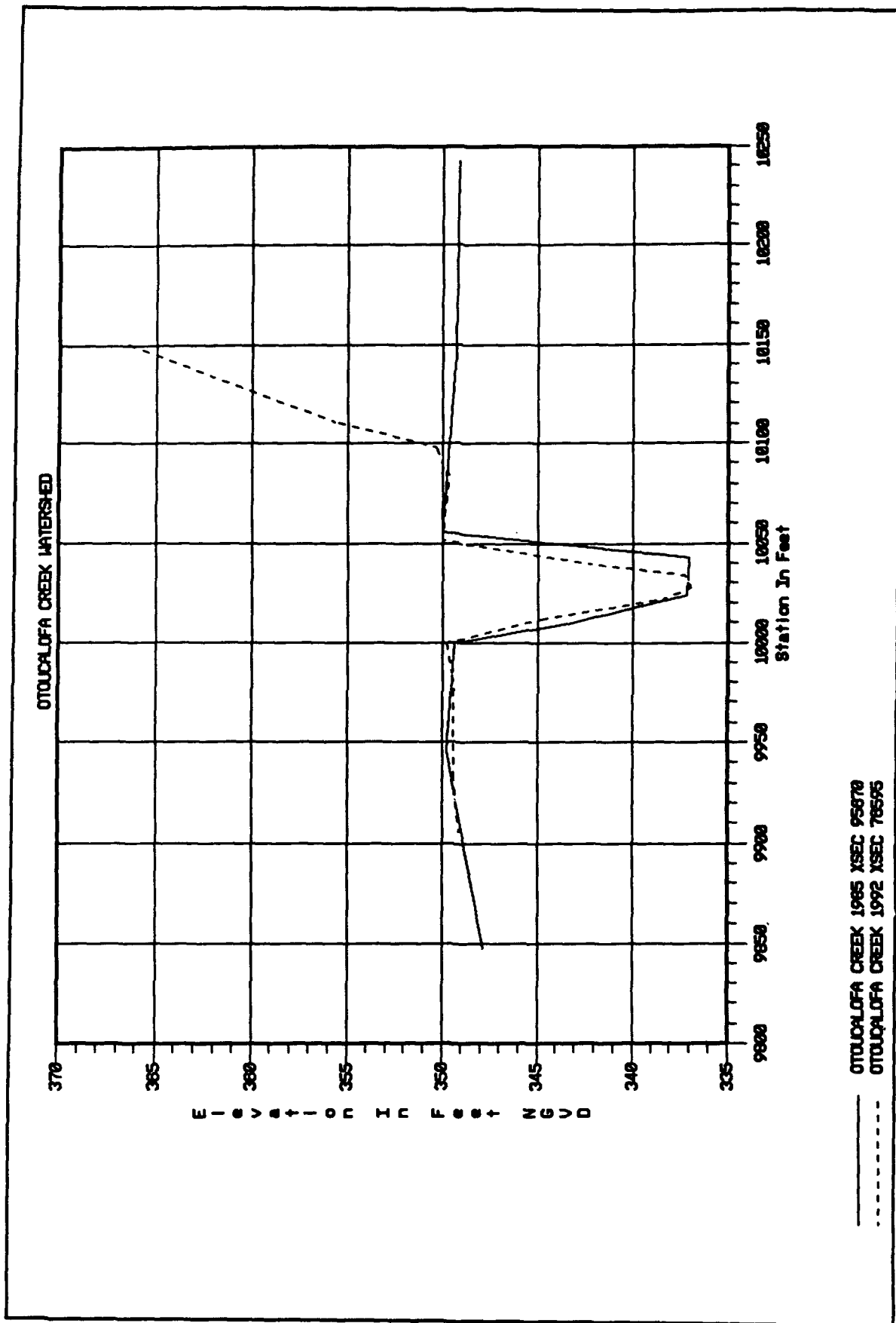
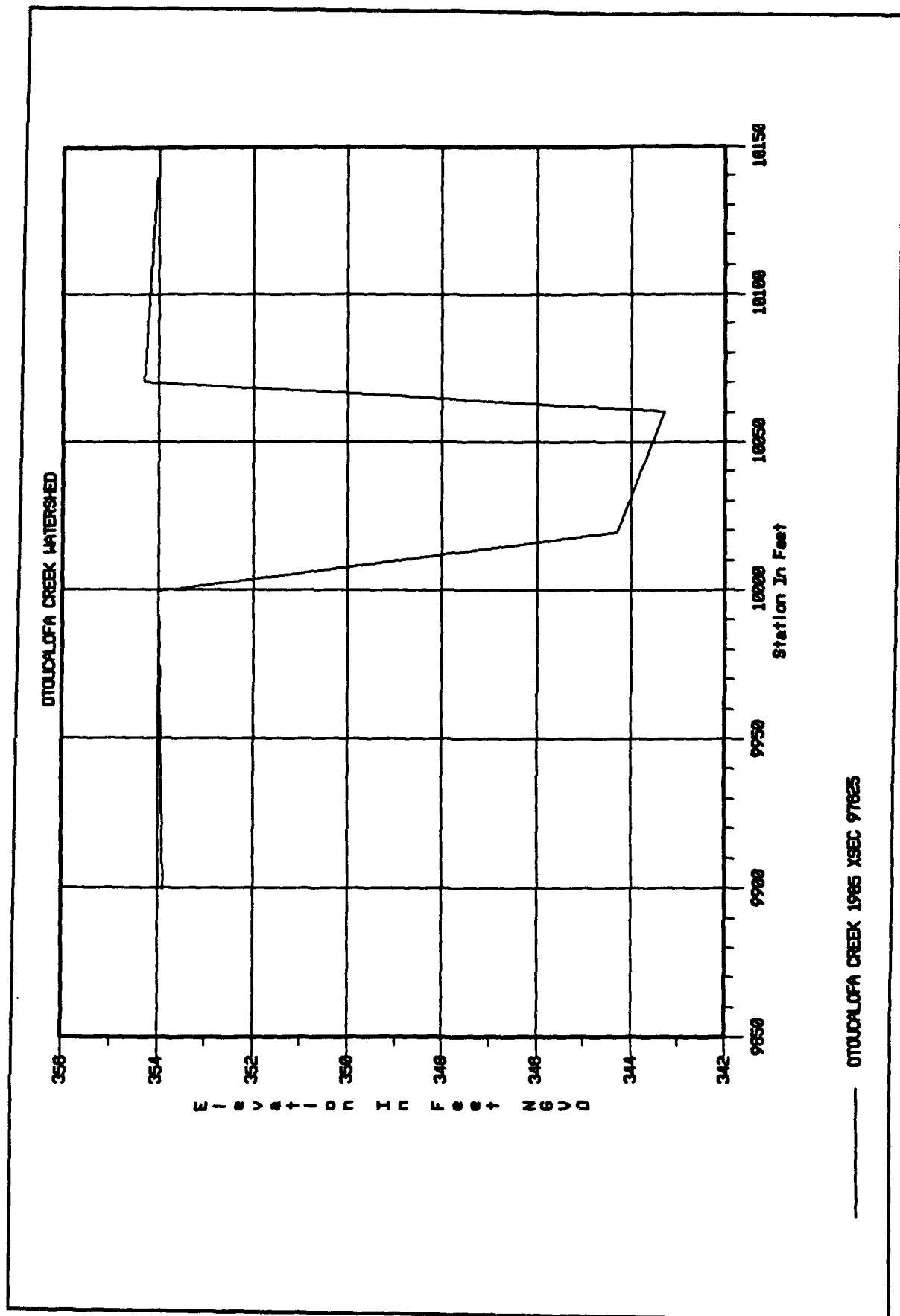


Plate C80





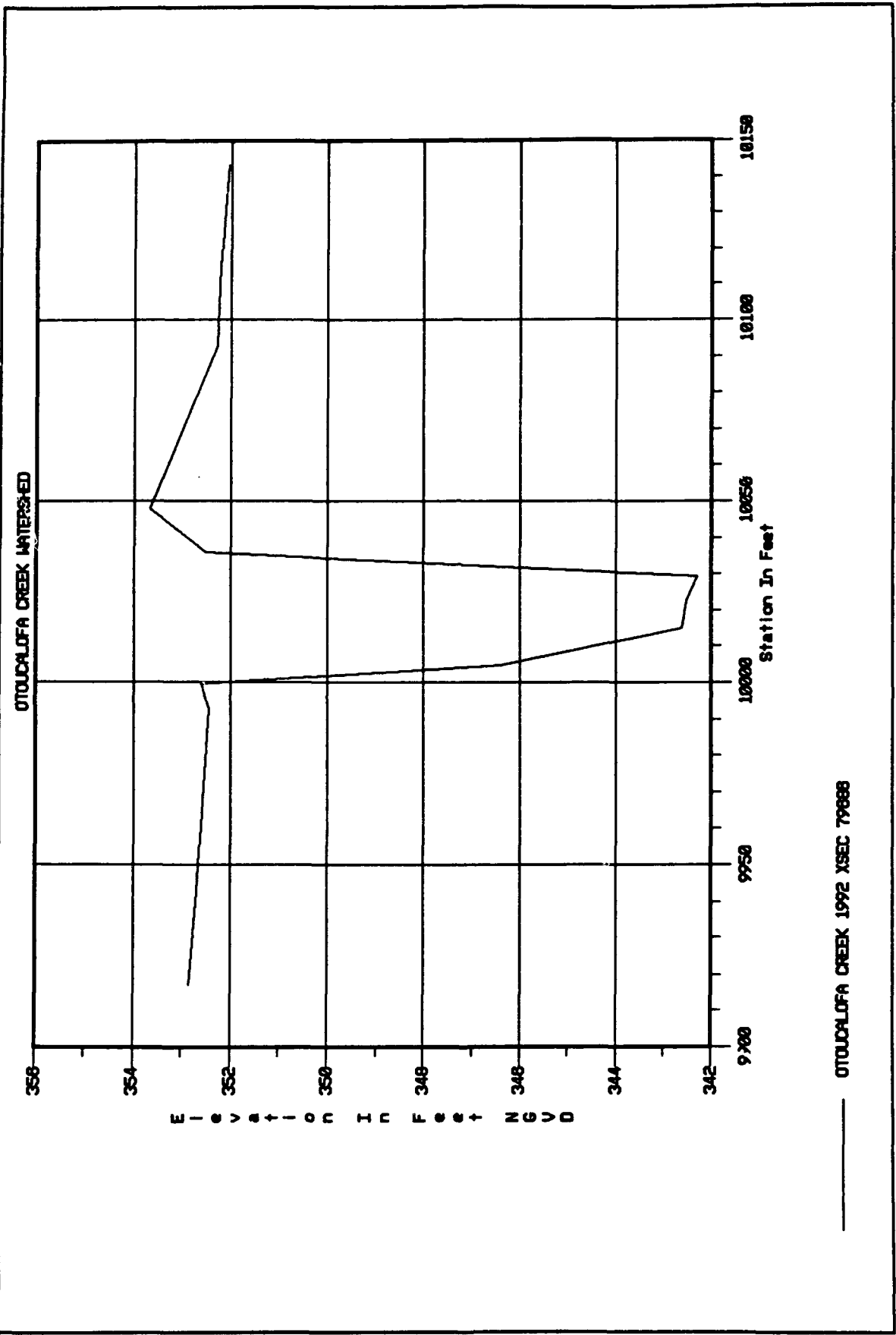
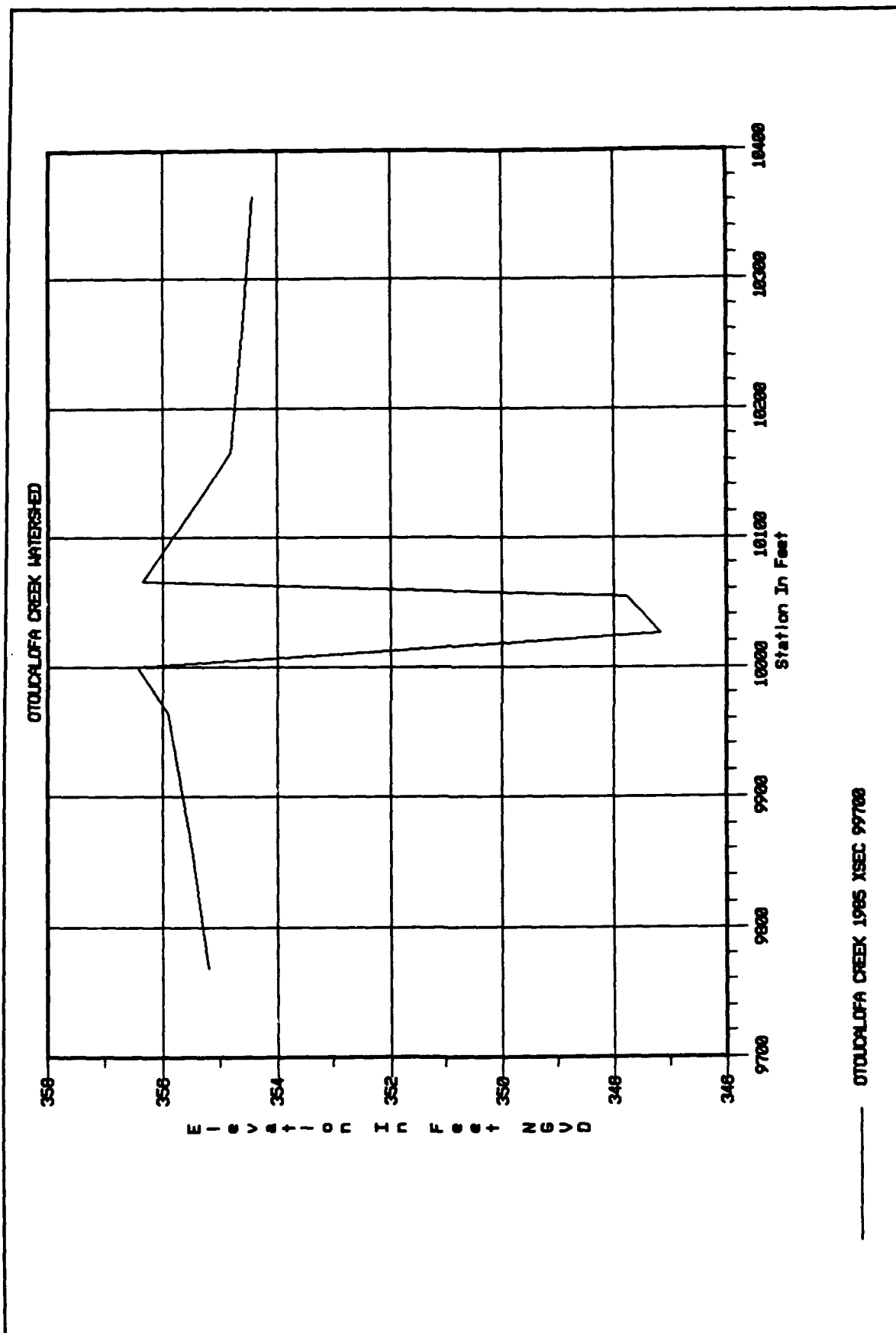


Plate C82



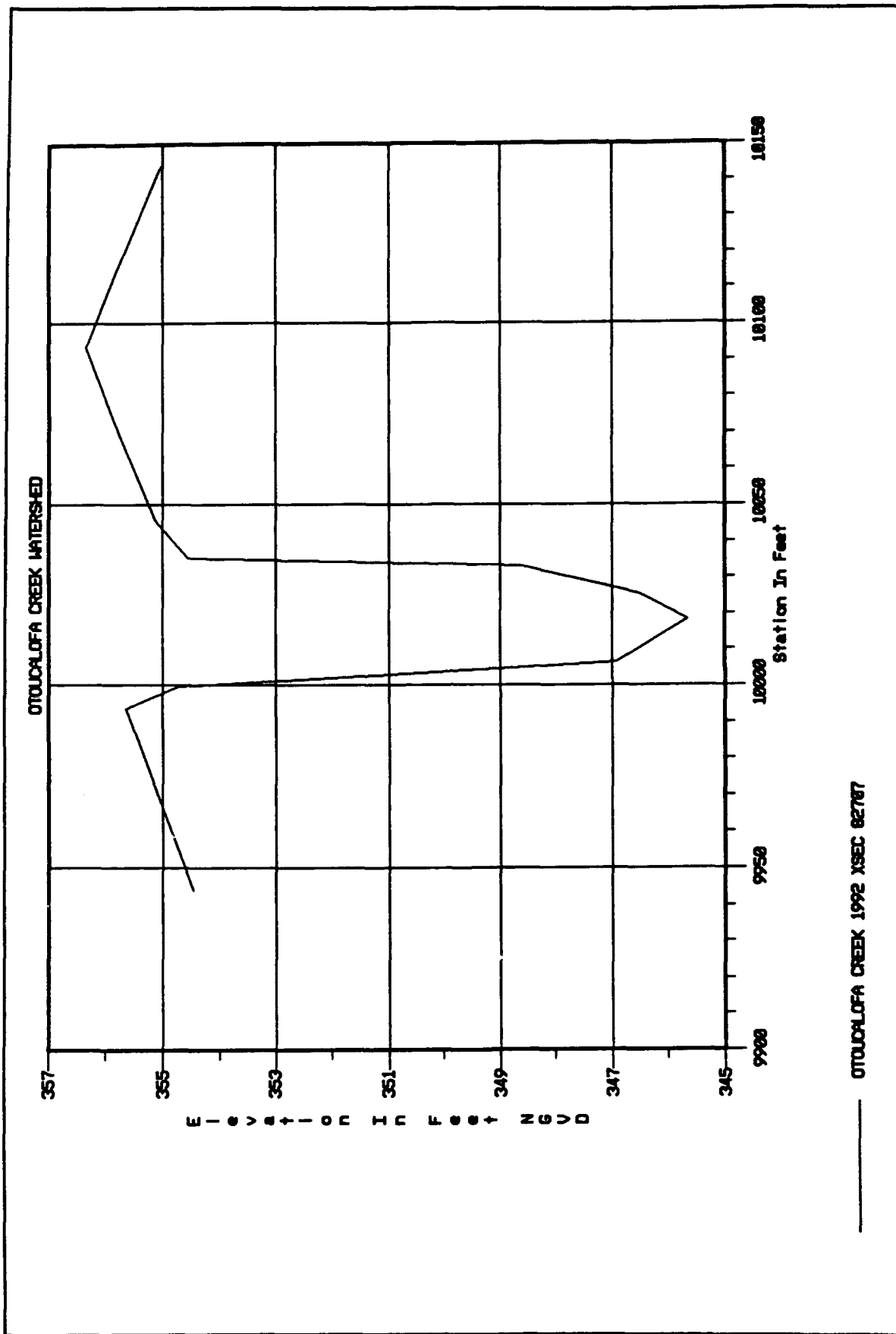
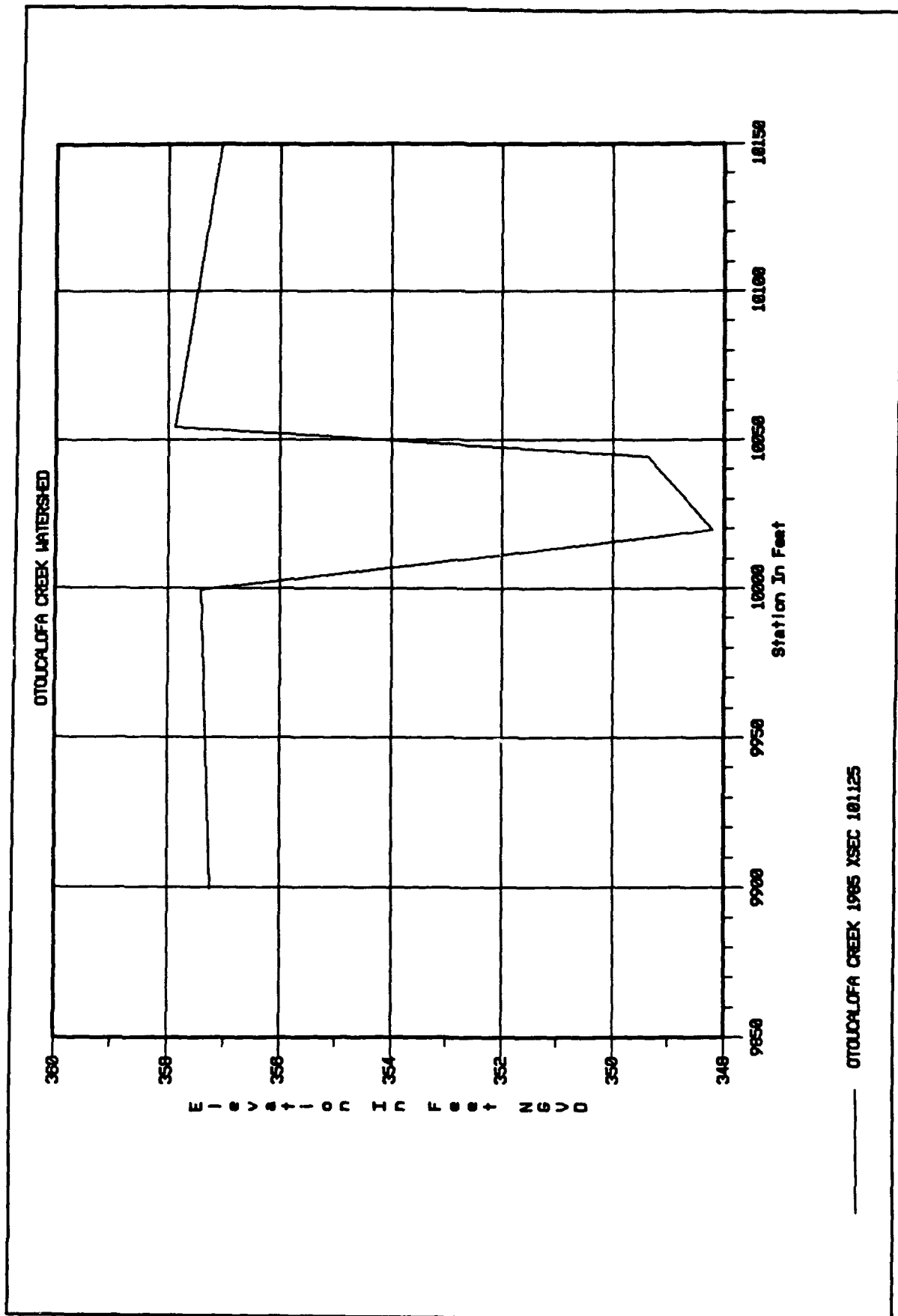


Plate C84



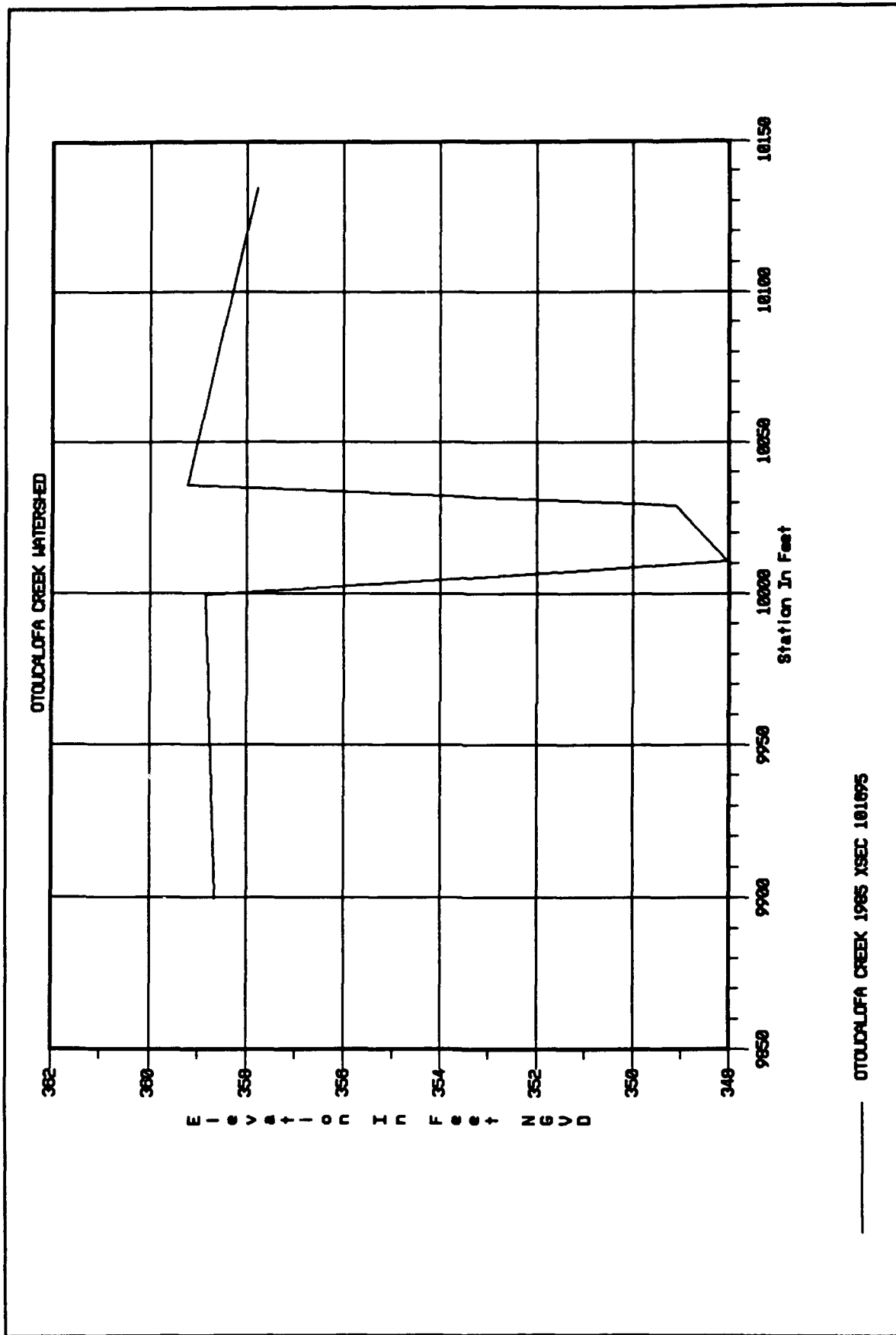
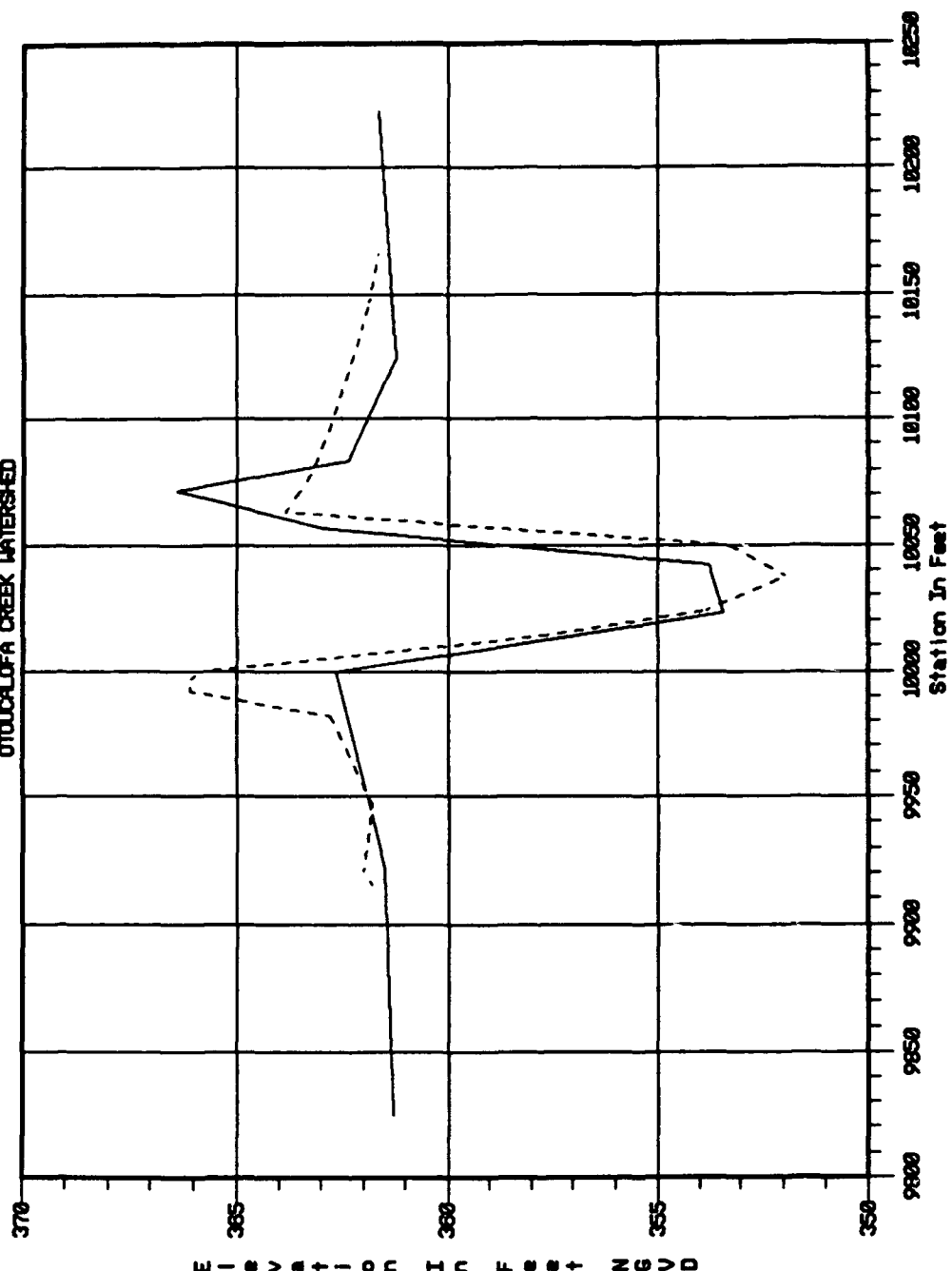


Plate C86

# OTOLUALOFA CREEK WATERSHED



OTOLUALOFA CREEK 1985 XSEC 103725  
 OTOLUALOFA CREEK 1992 XSEC 88711

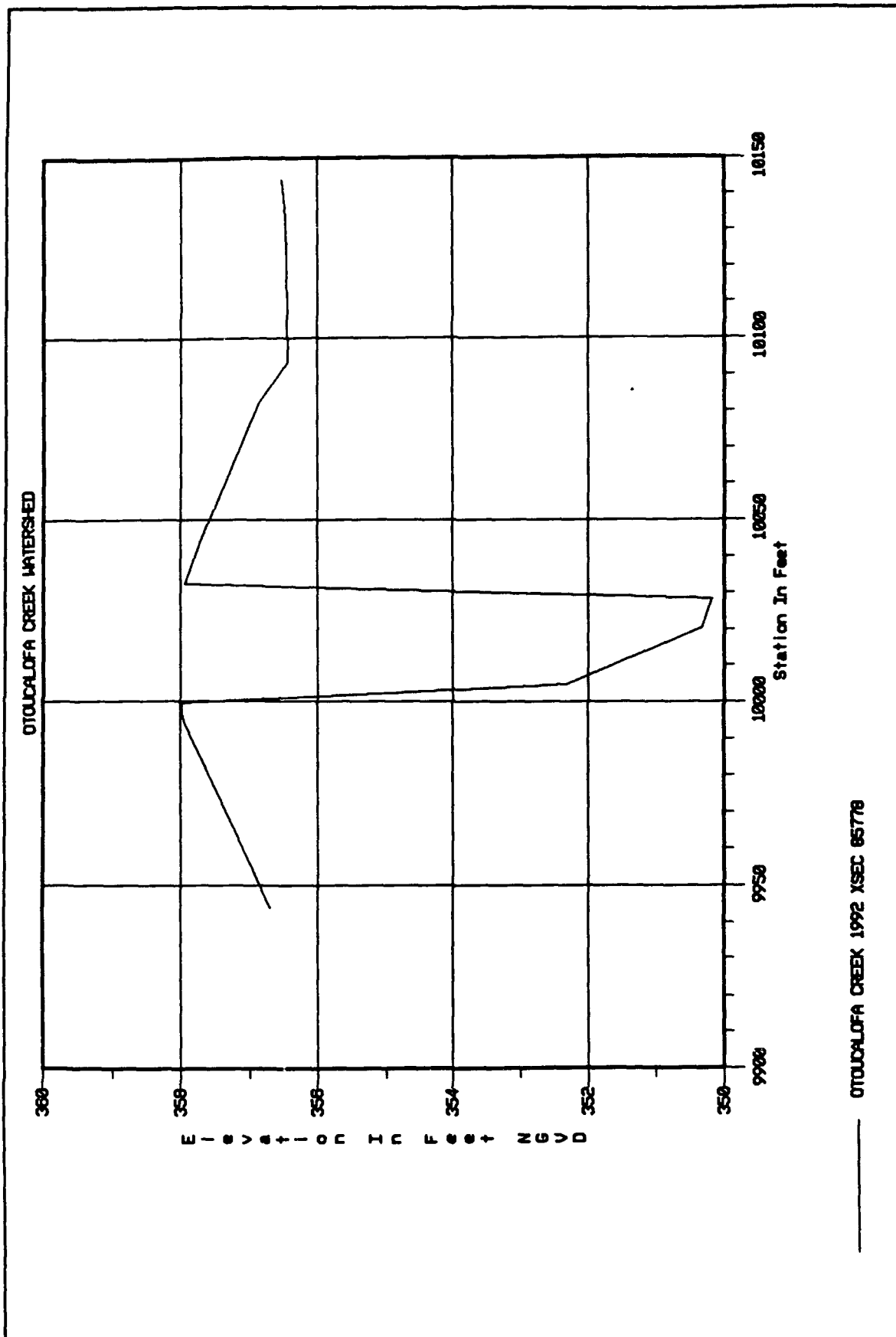
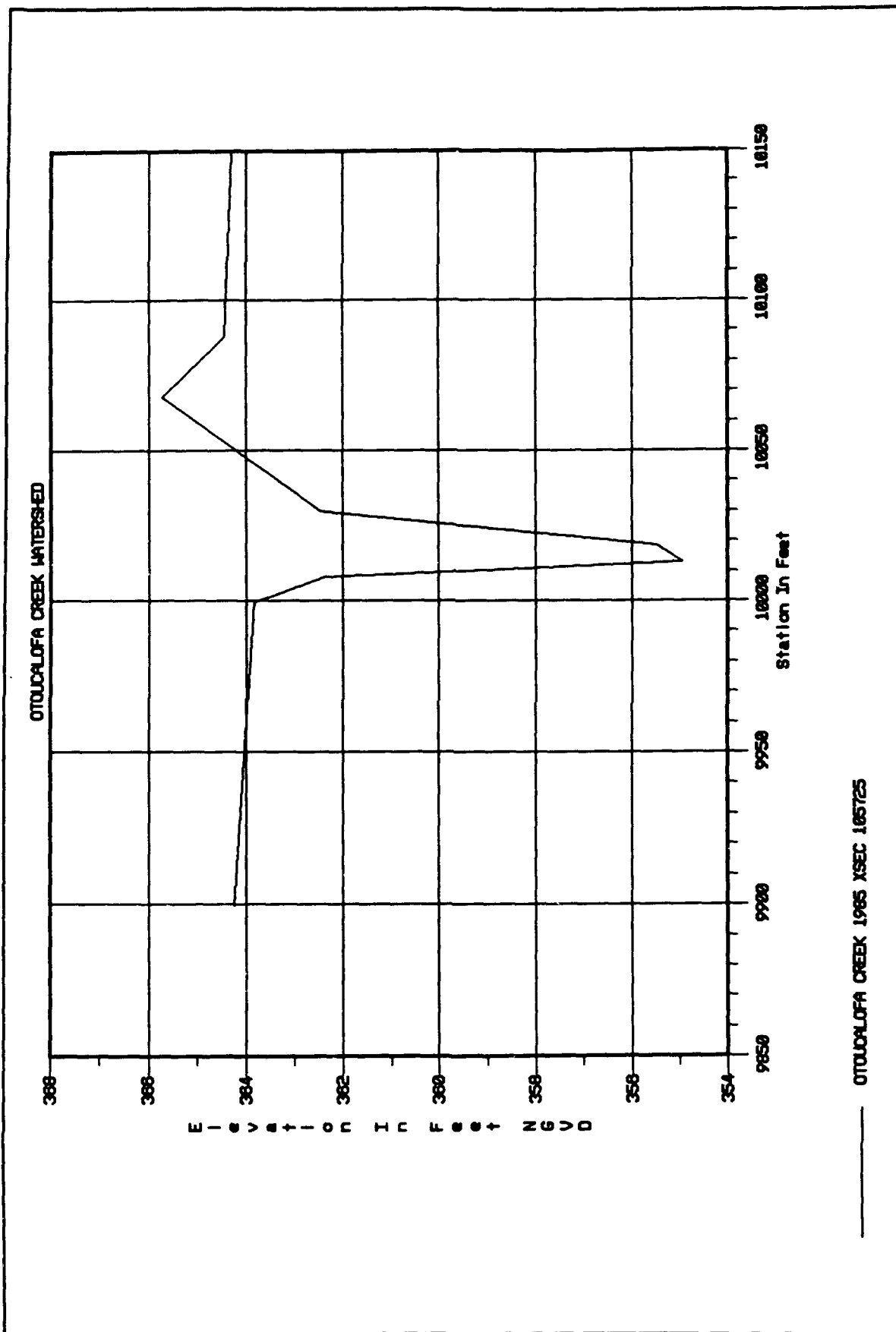
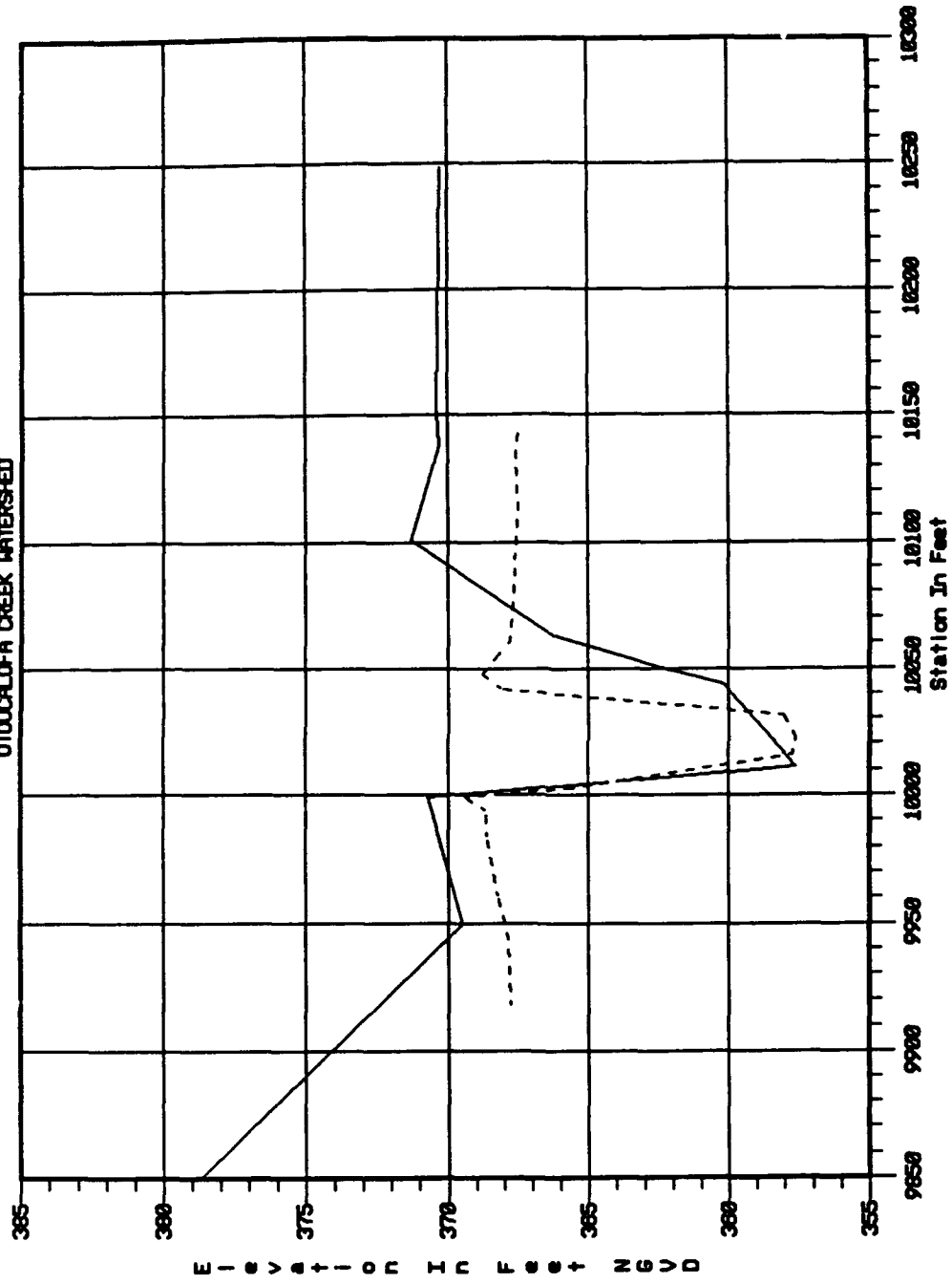


Plate C88

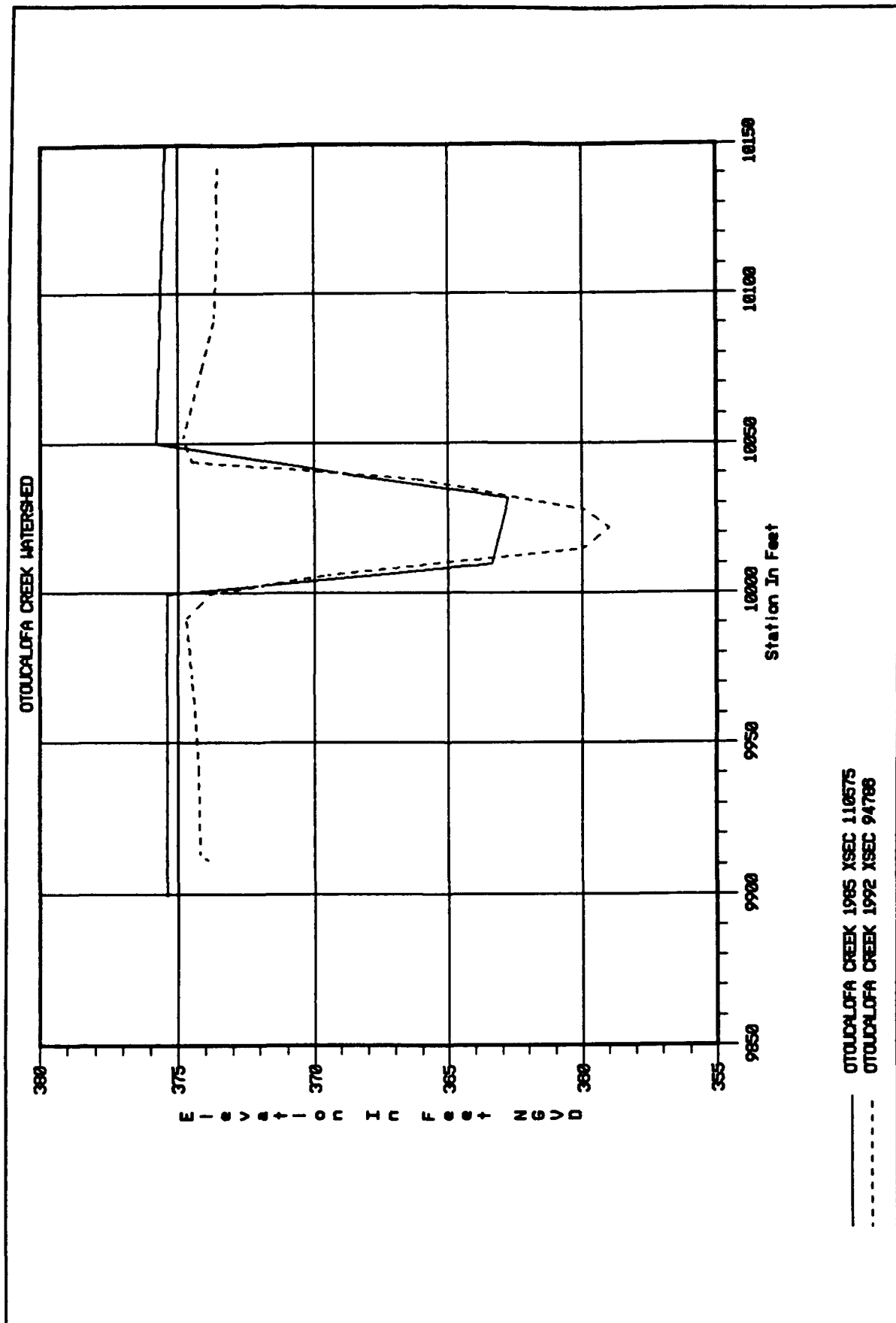




OTOLUALOFA CREEK WATERSHED



OTOLUALOFA CREEK 1985 XSEC 106200  
OTOLUALOFA CREEK 1992 XSEC 91716



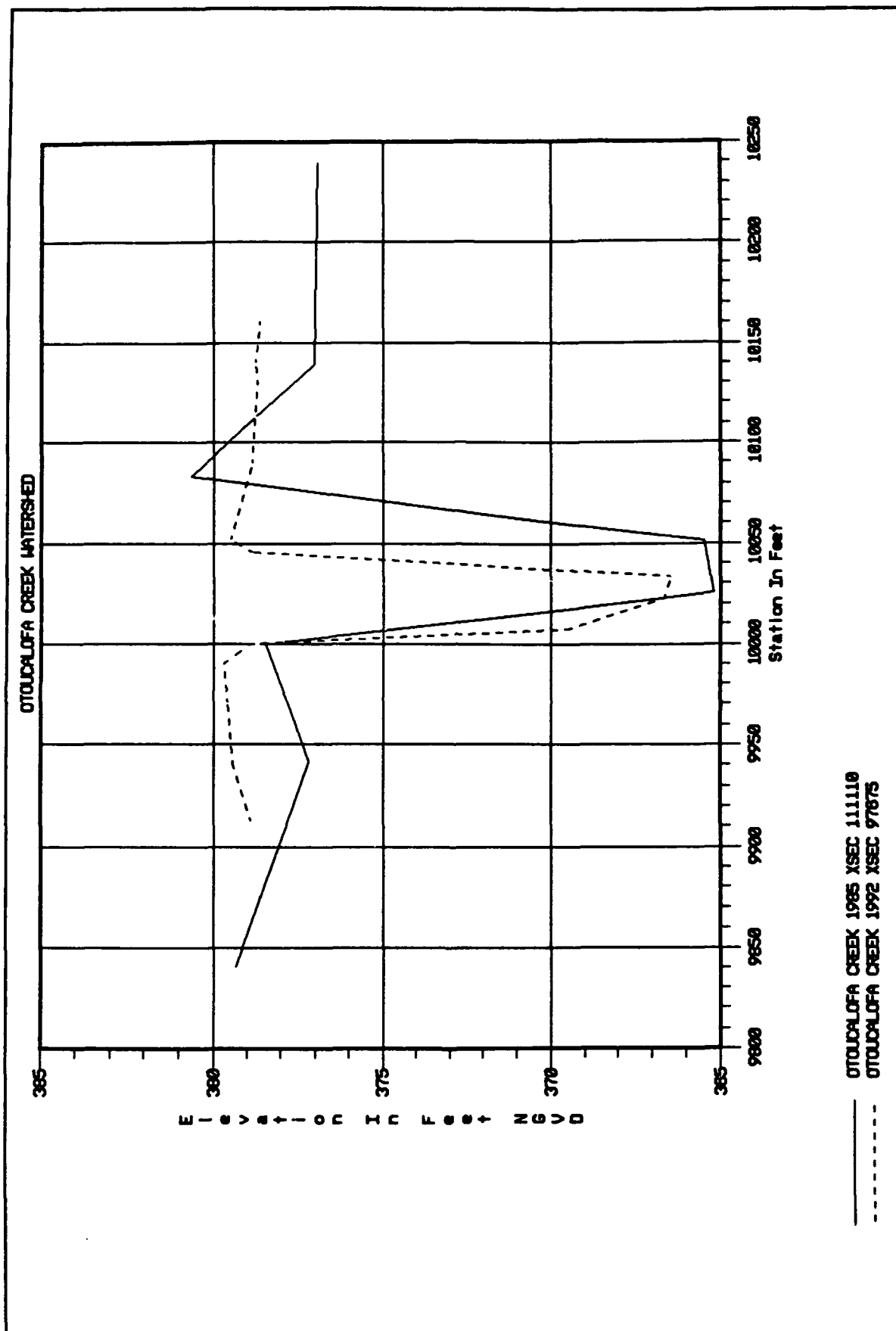
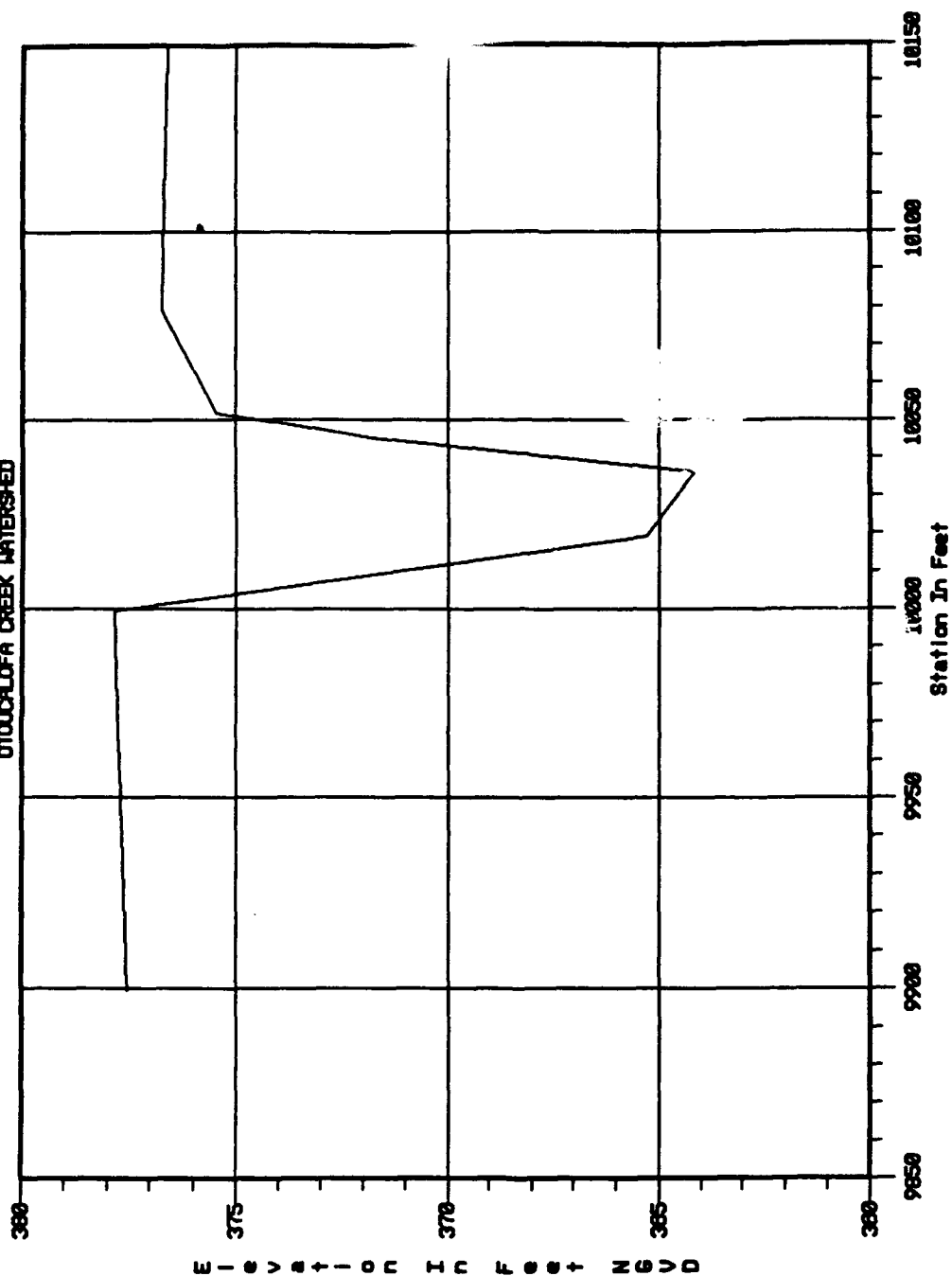


Plate C92

# OTOUCHLOFA CREEK WATERSHED



OTOUCHLOFA CREEK 1965 XSEC 111525

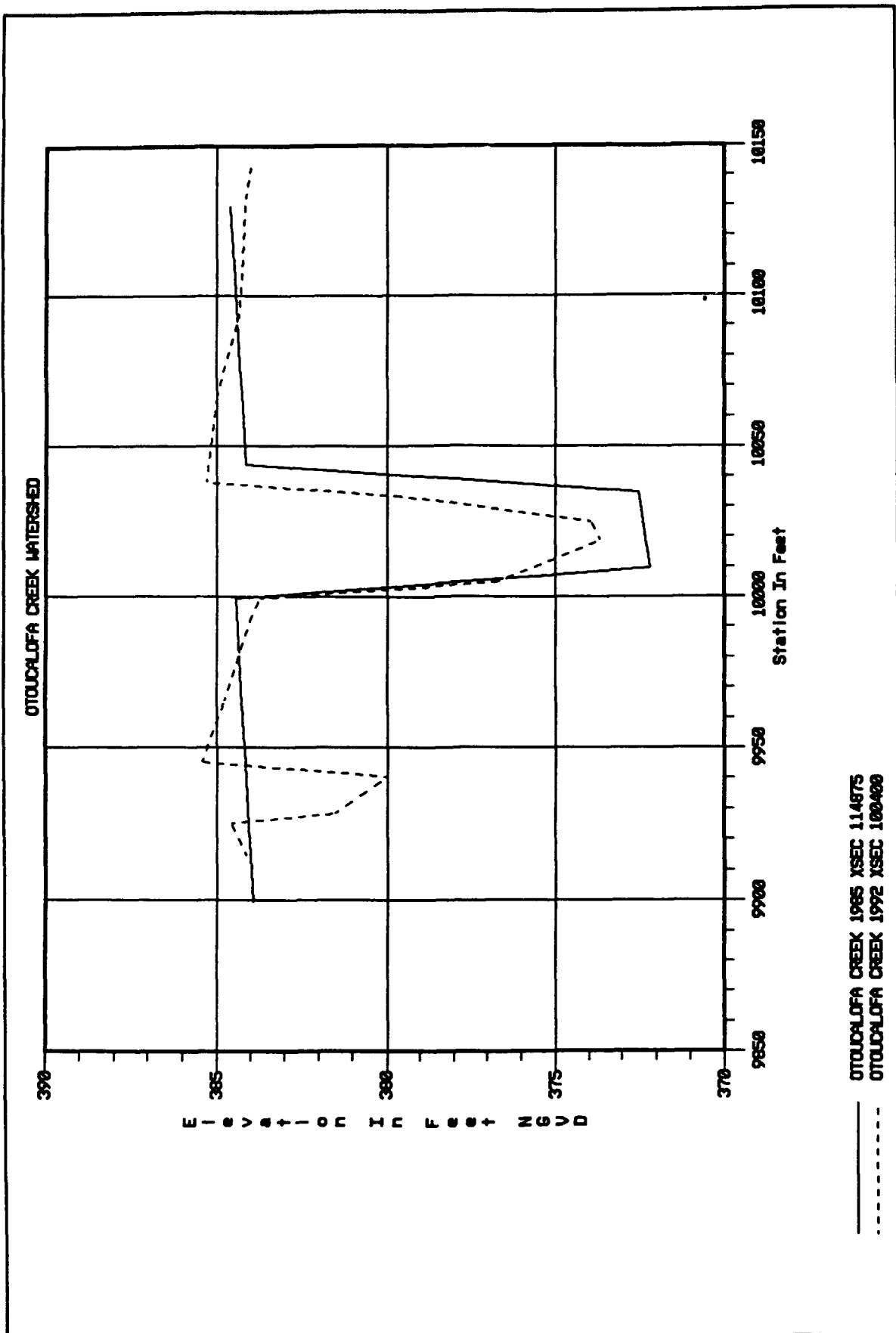


Plate C94

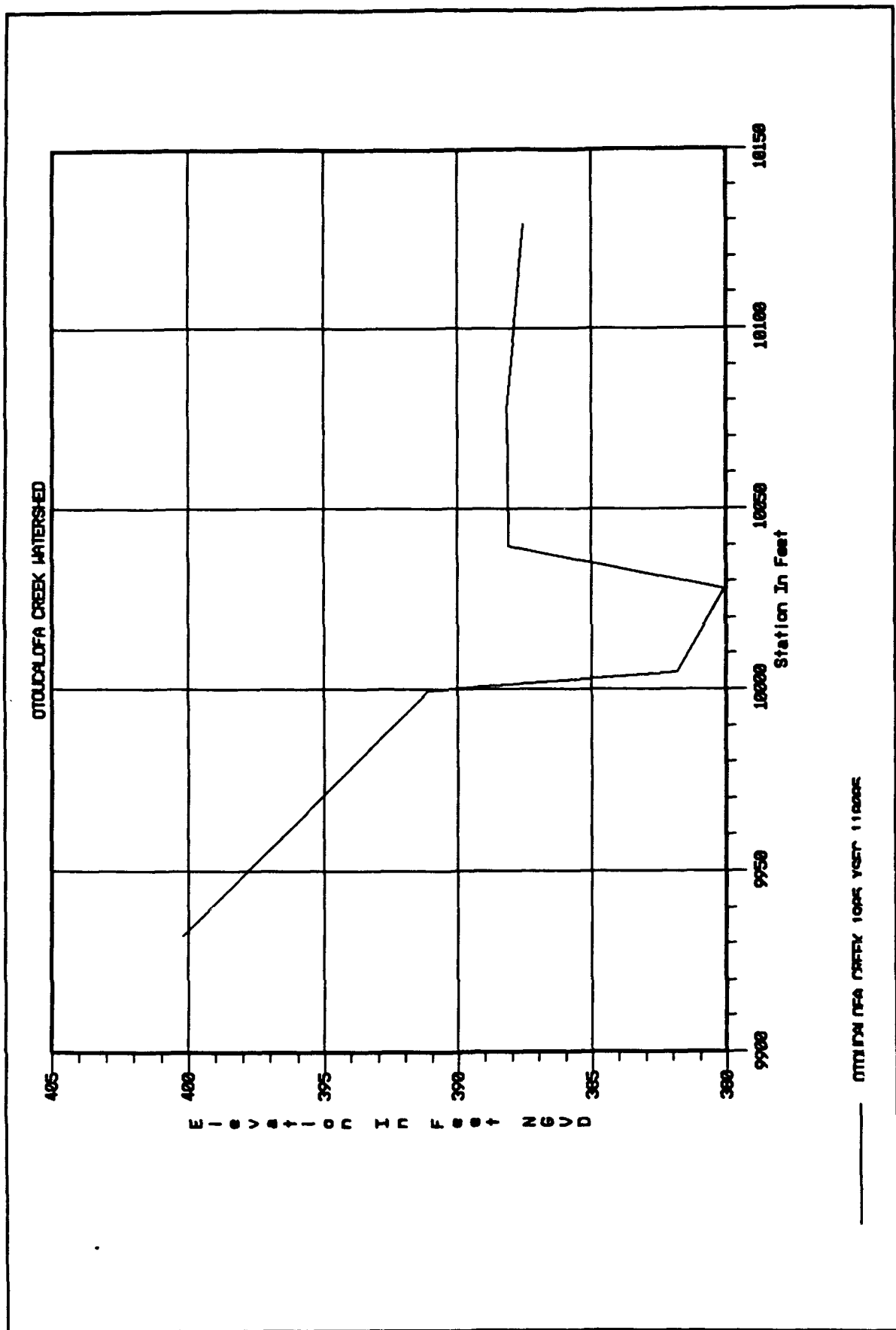


Plate C95

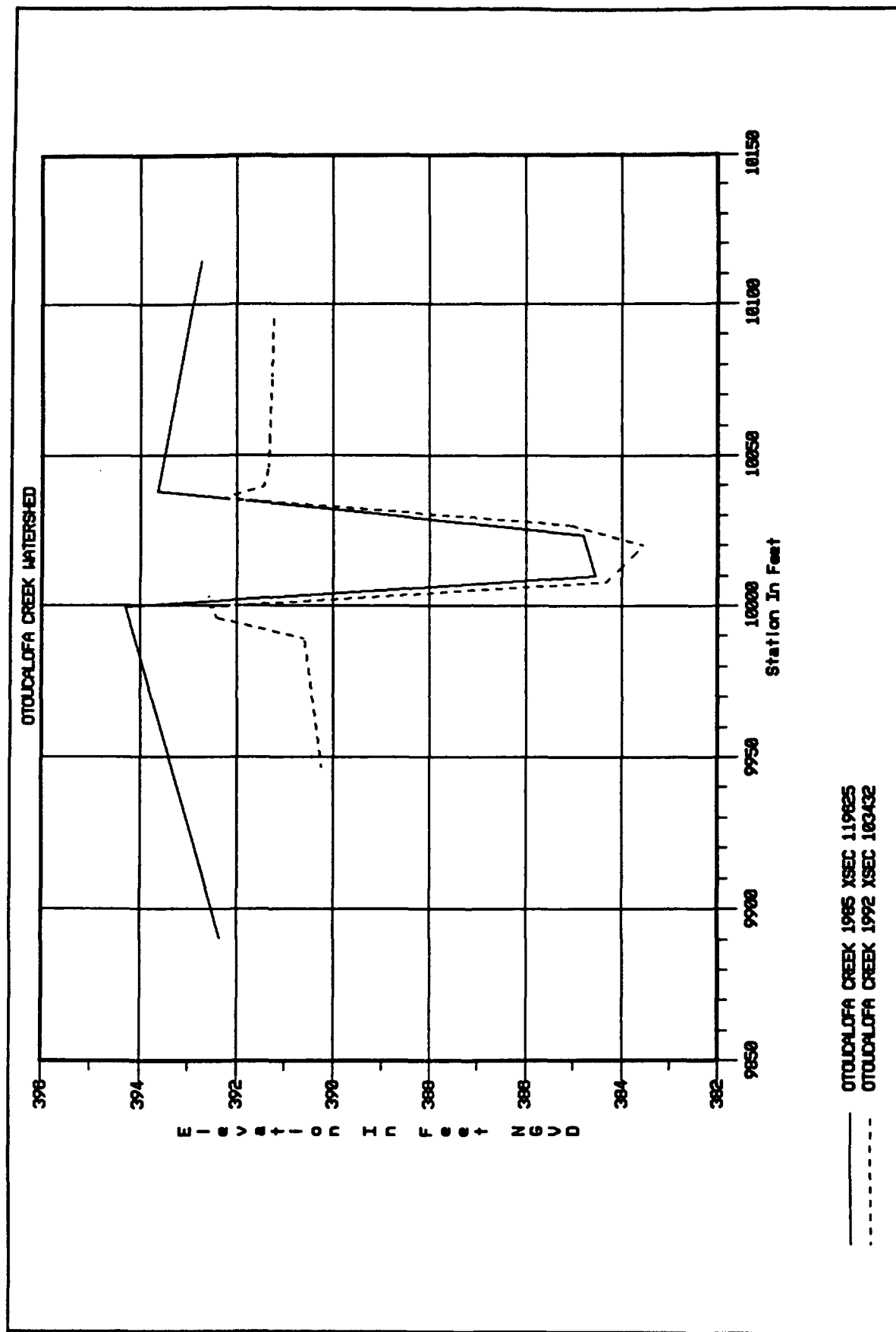
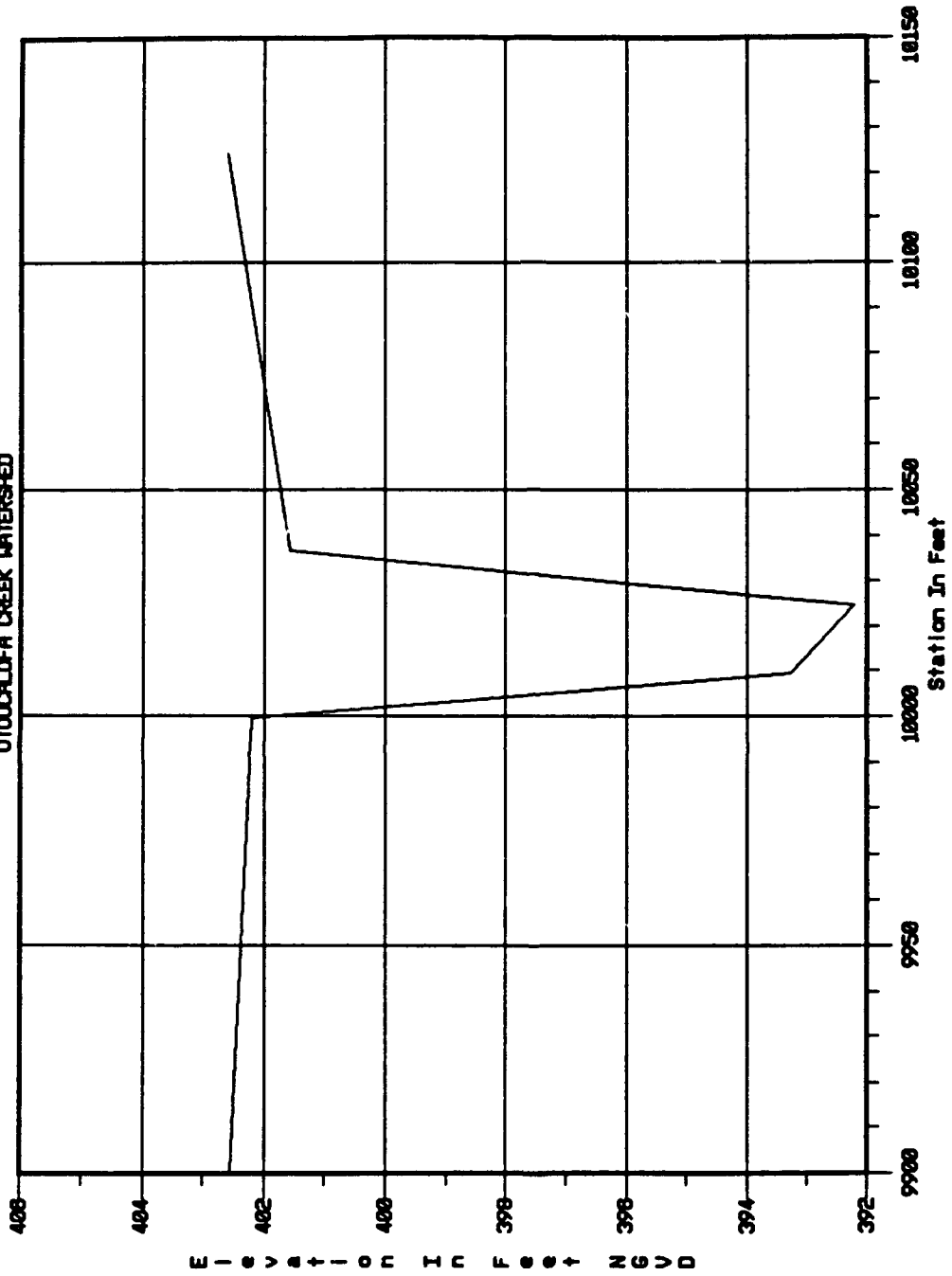


Plate C96

# OTOUALLOFA CREEK WATERSHED



OTOUALLOFA CREEK 1985 XSEC 123210



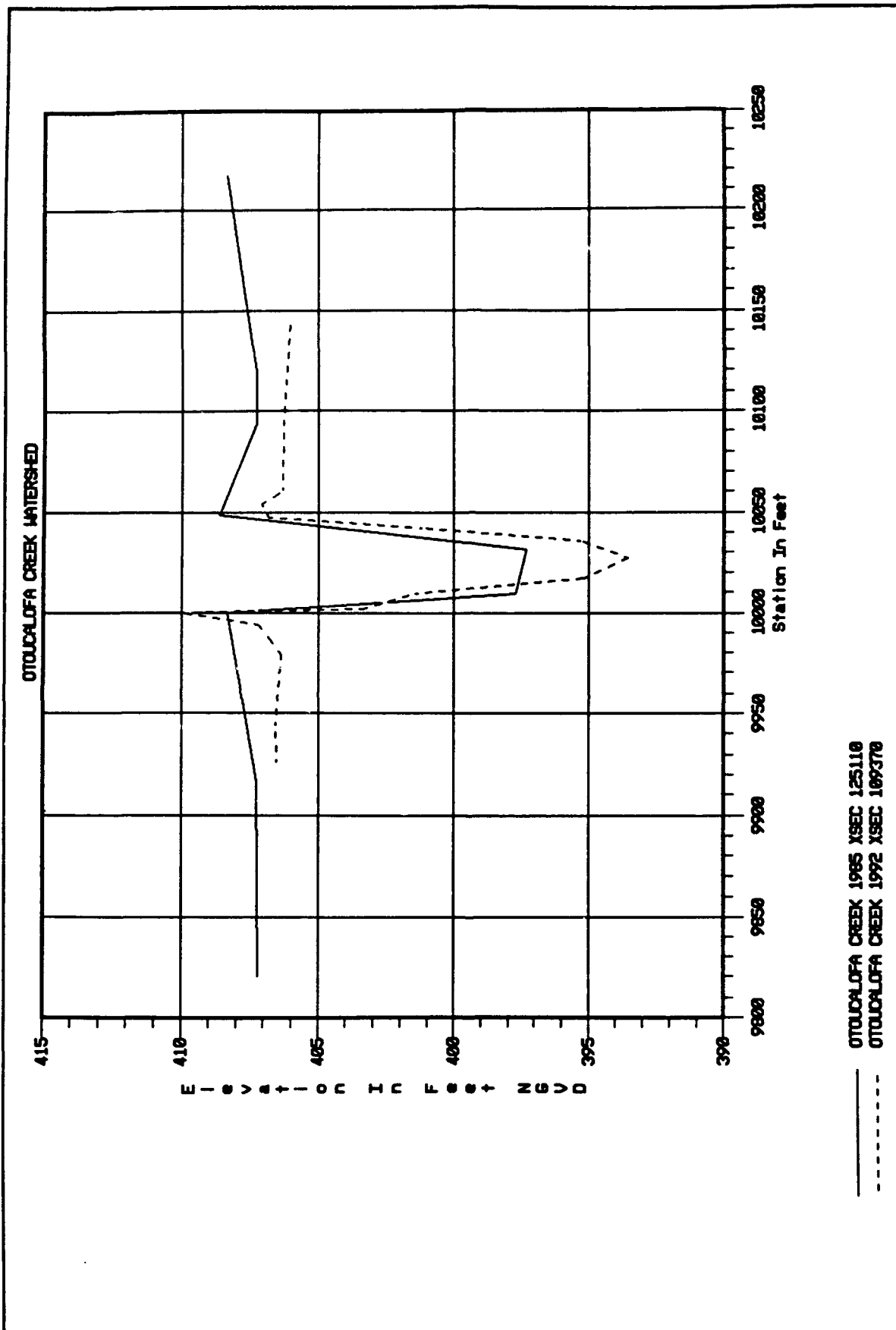
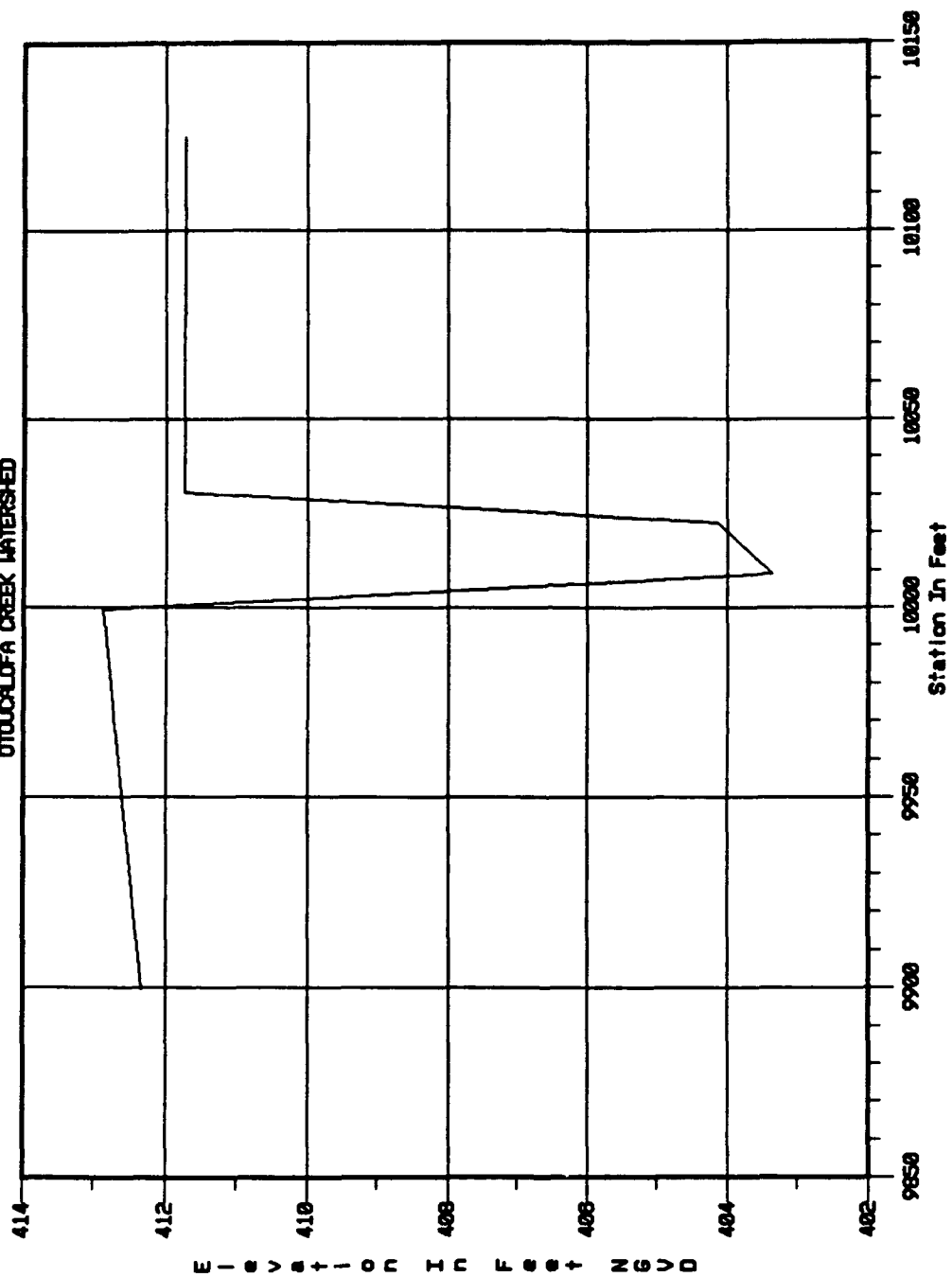


Plate C98

OTTOLOLOFA CREEK WATERSHED



OTTOLOLOFA CREEK 1965 XSEC 126735

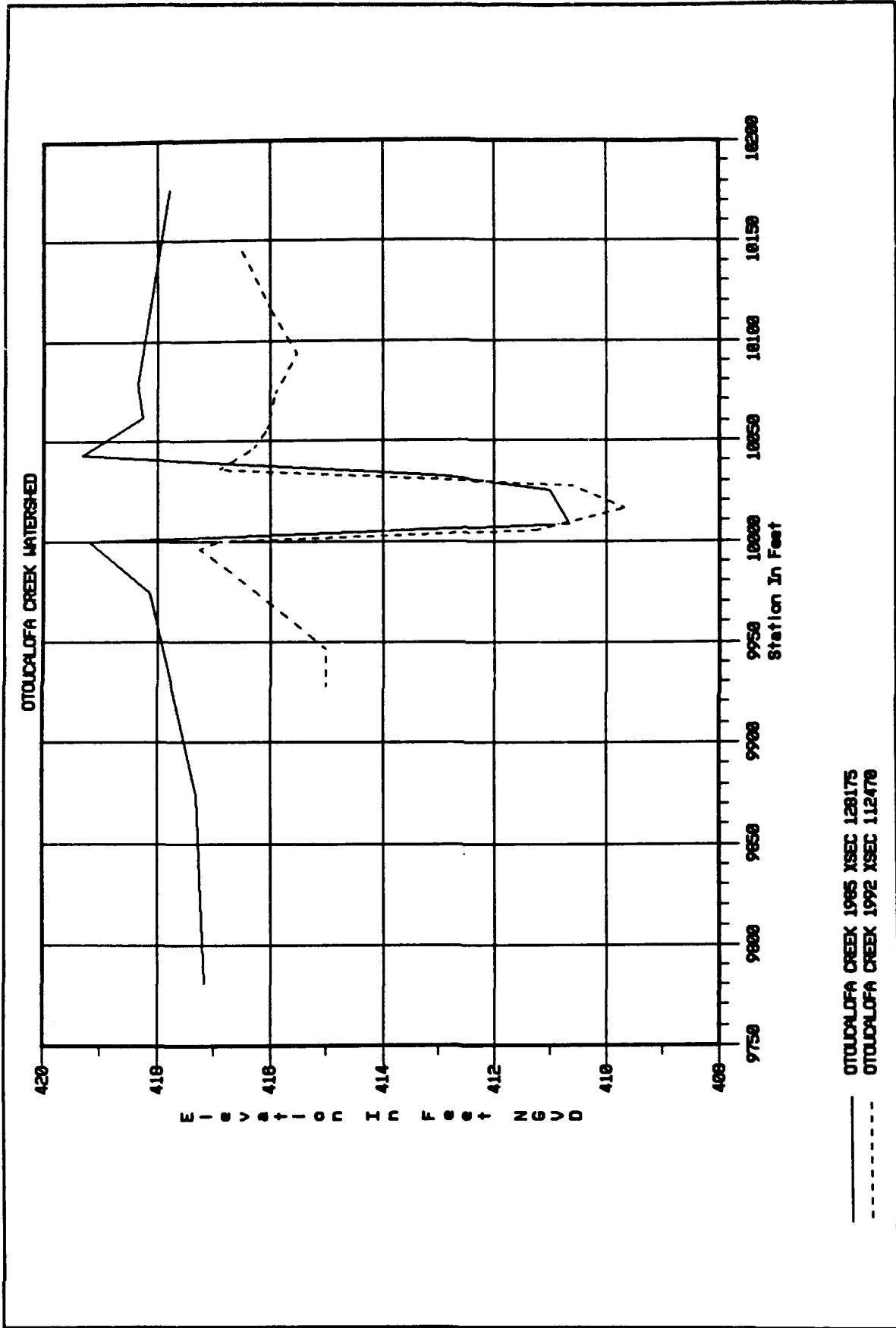
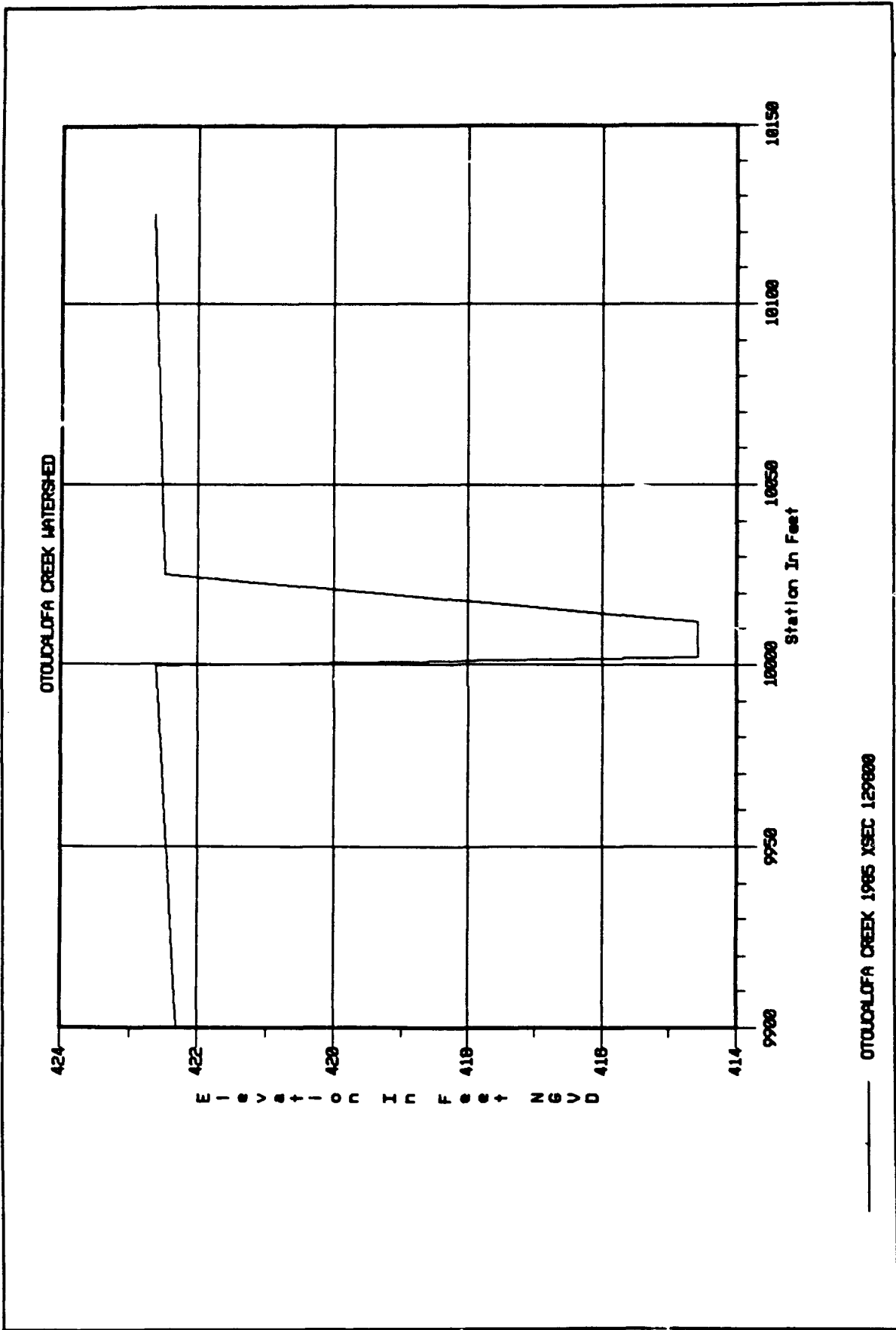
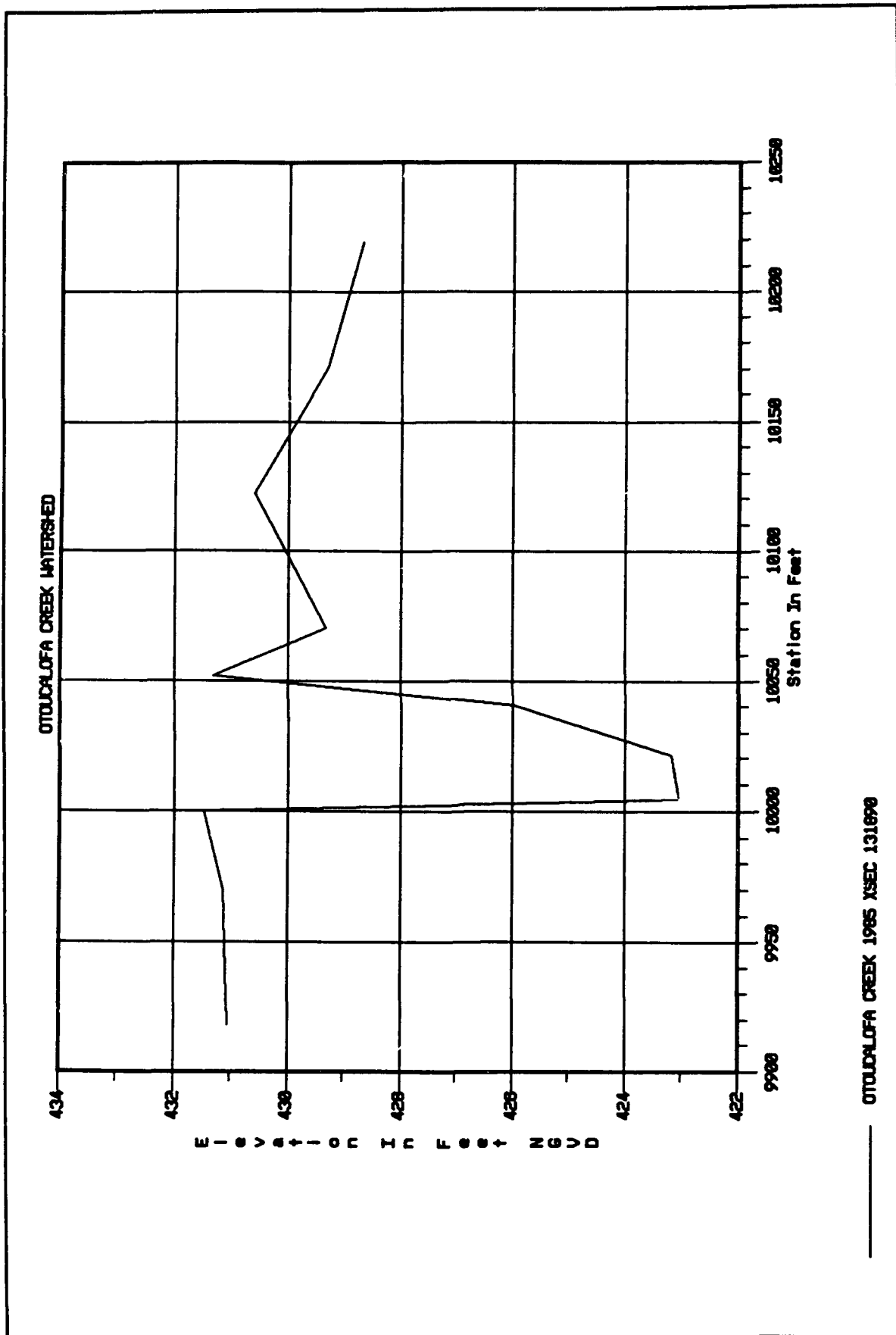
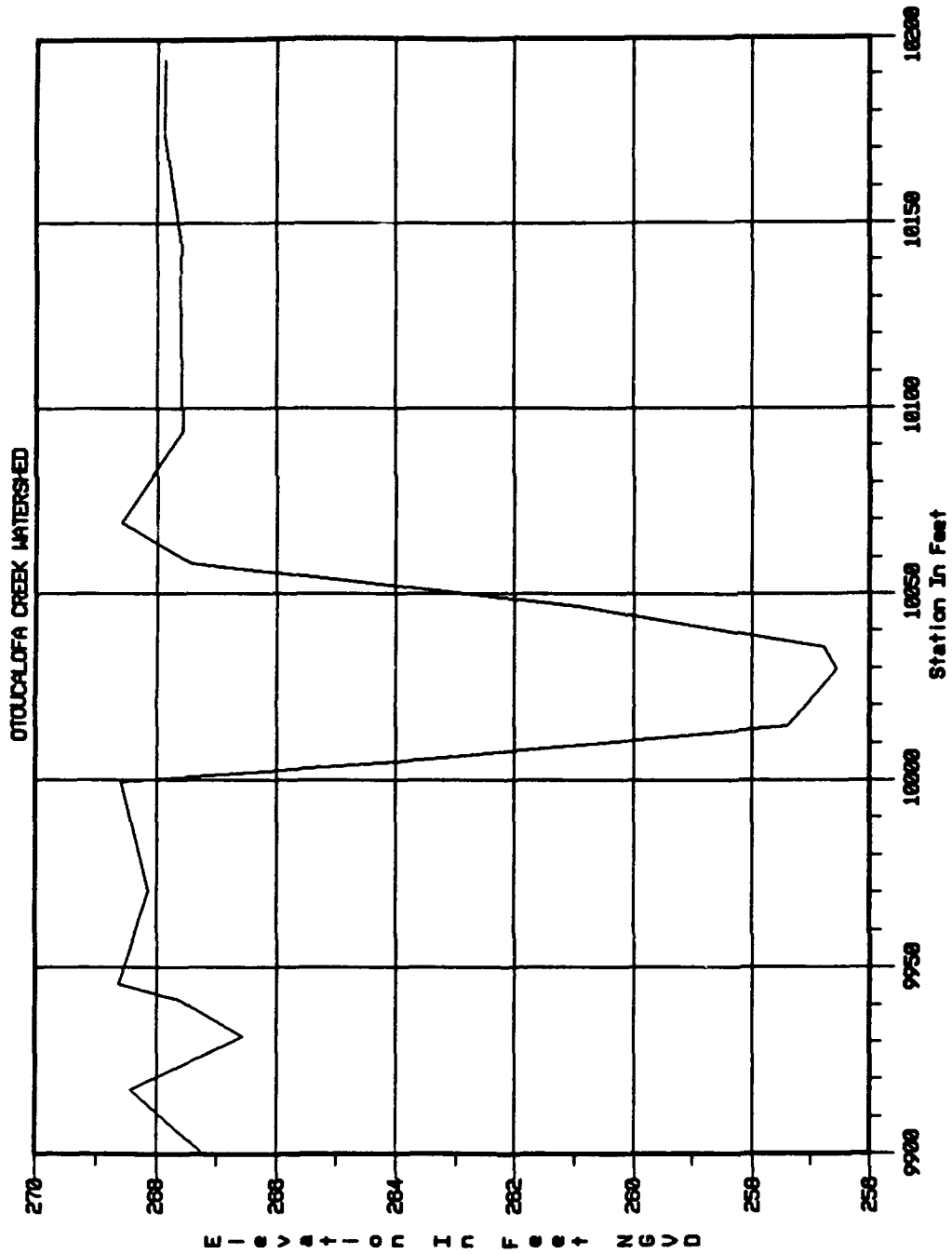


Plate C100







— SUSIE PERRY CREEK 1992 XSEC 3000

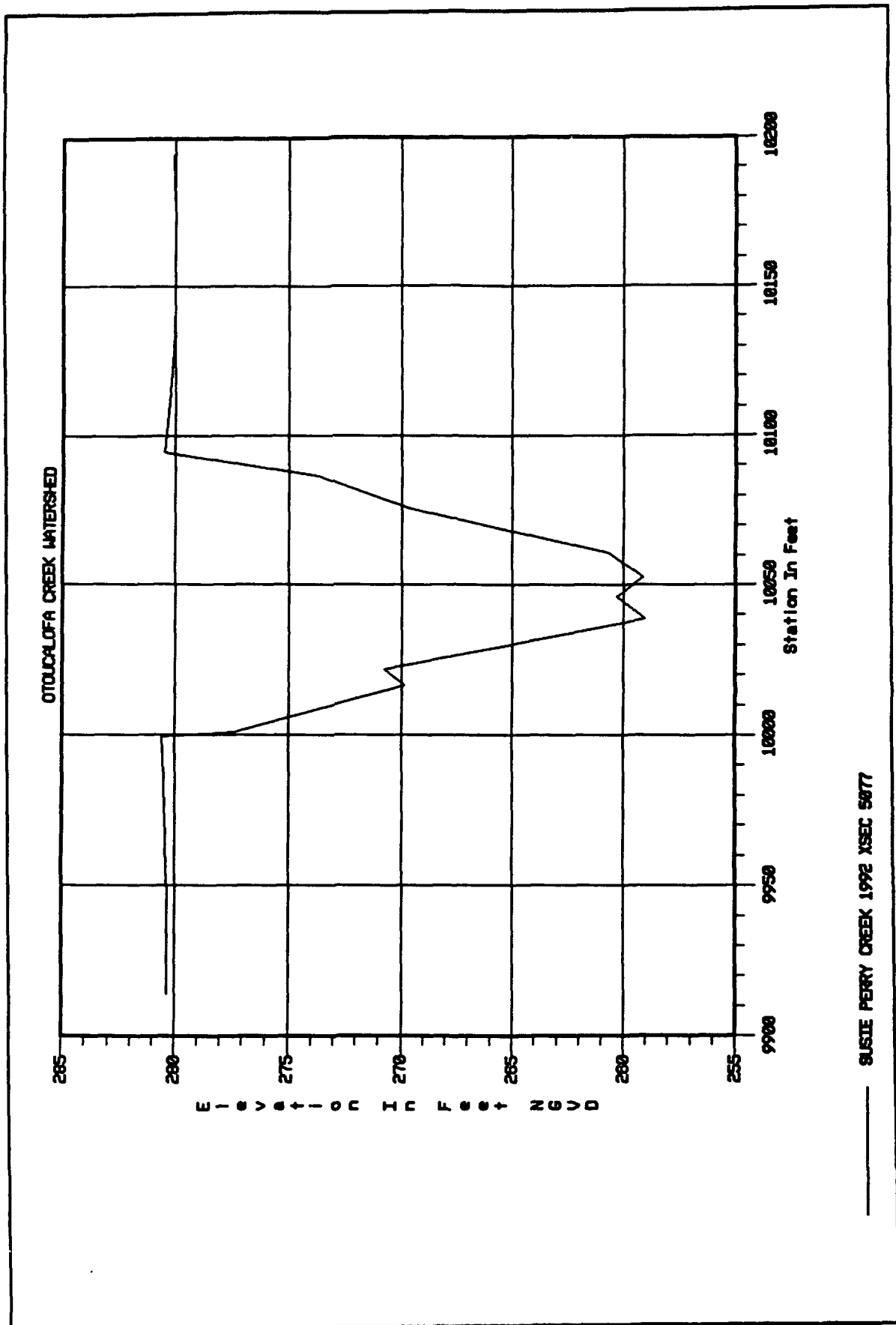
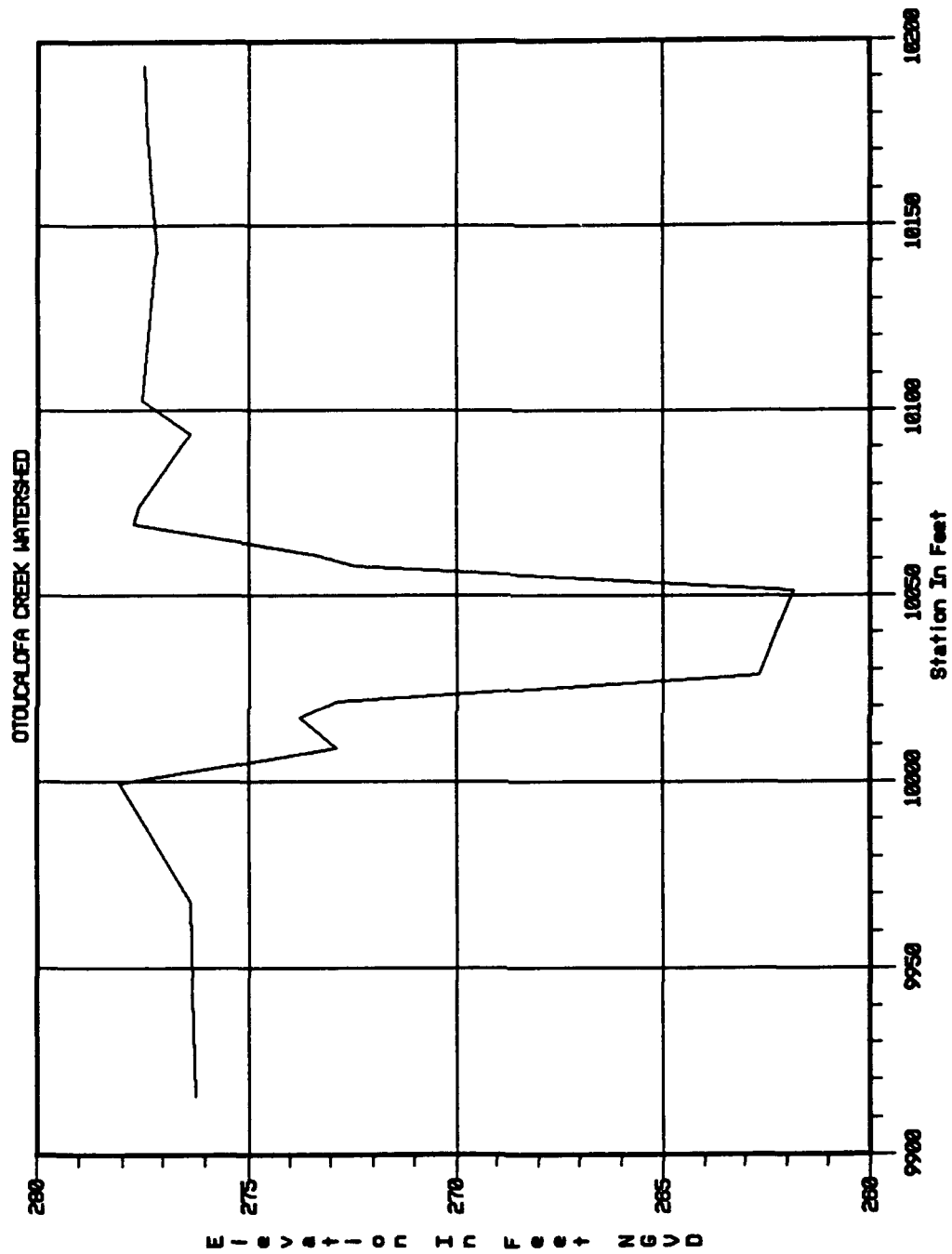


Plate C104



SUSIE PERRY CREEK 1992 XSEC 0000



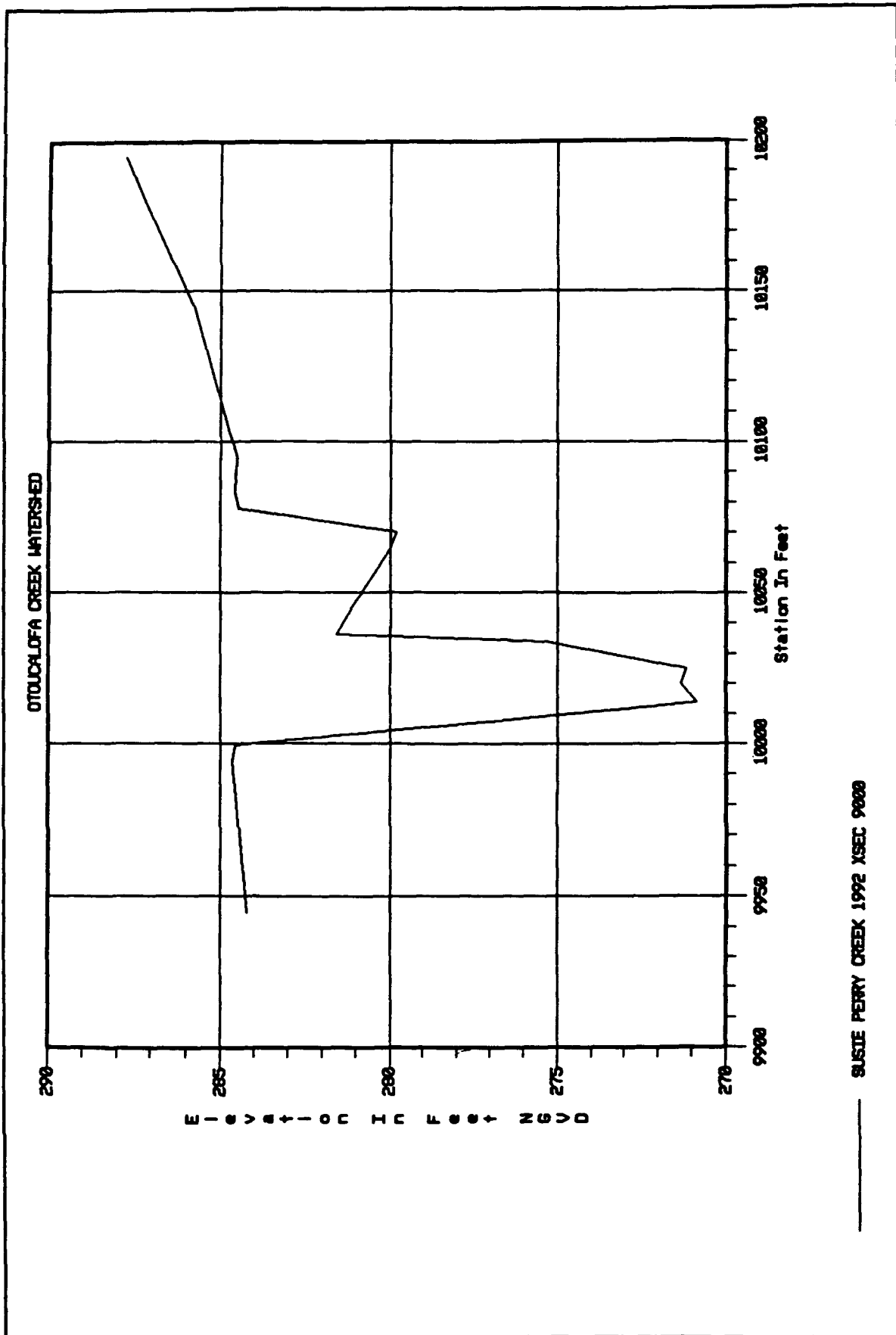
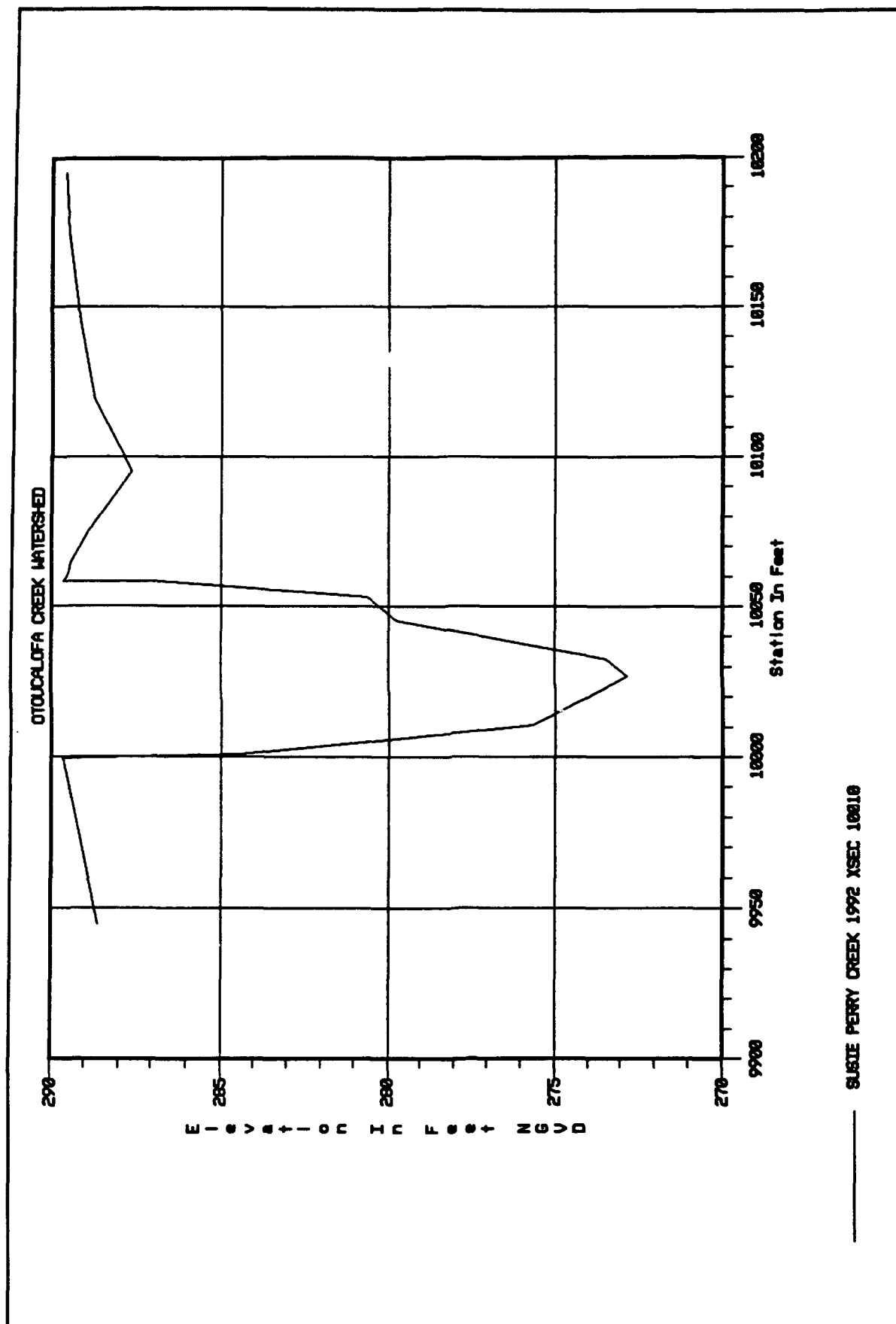


Plate C106



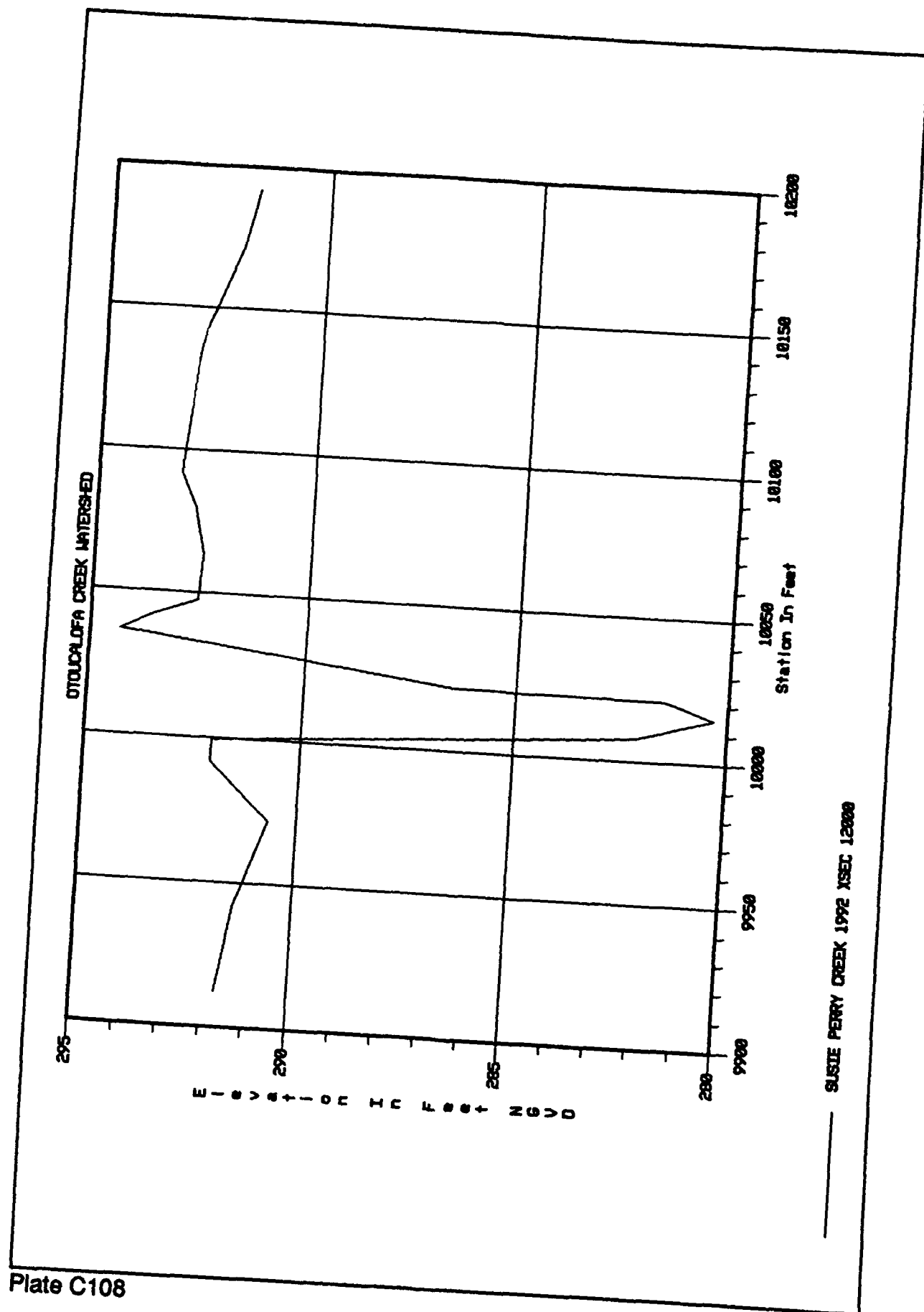
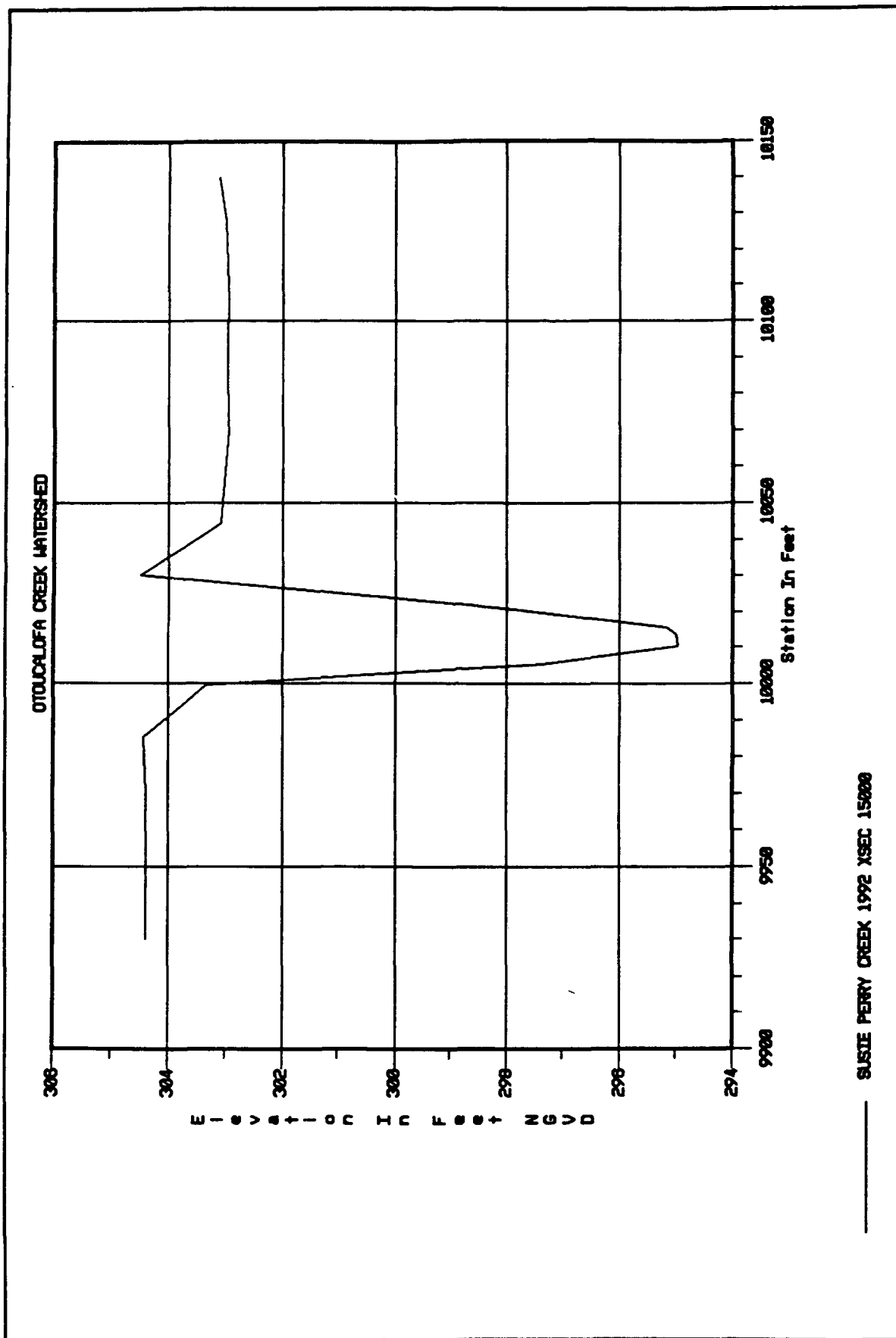


Plate C108



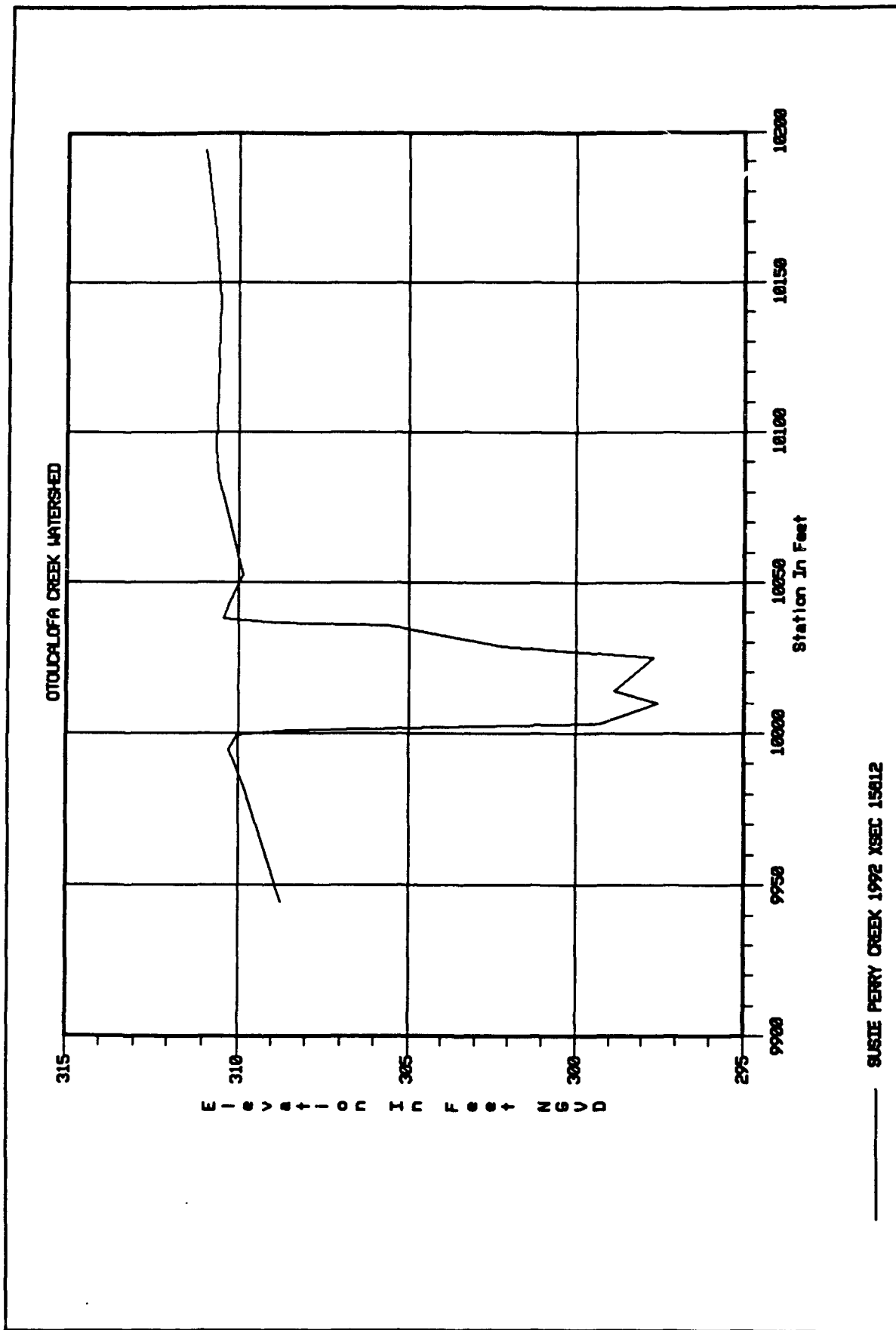
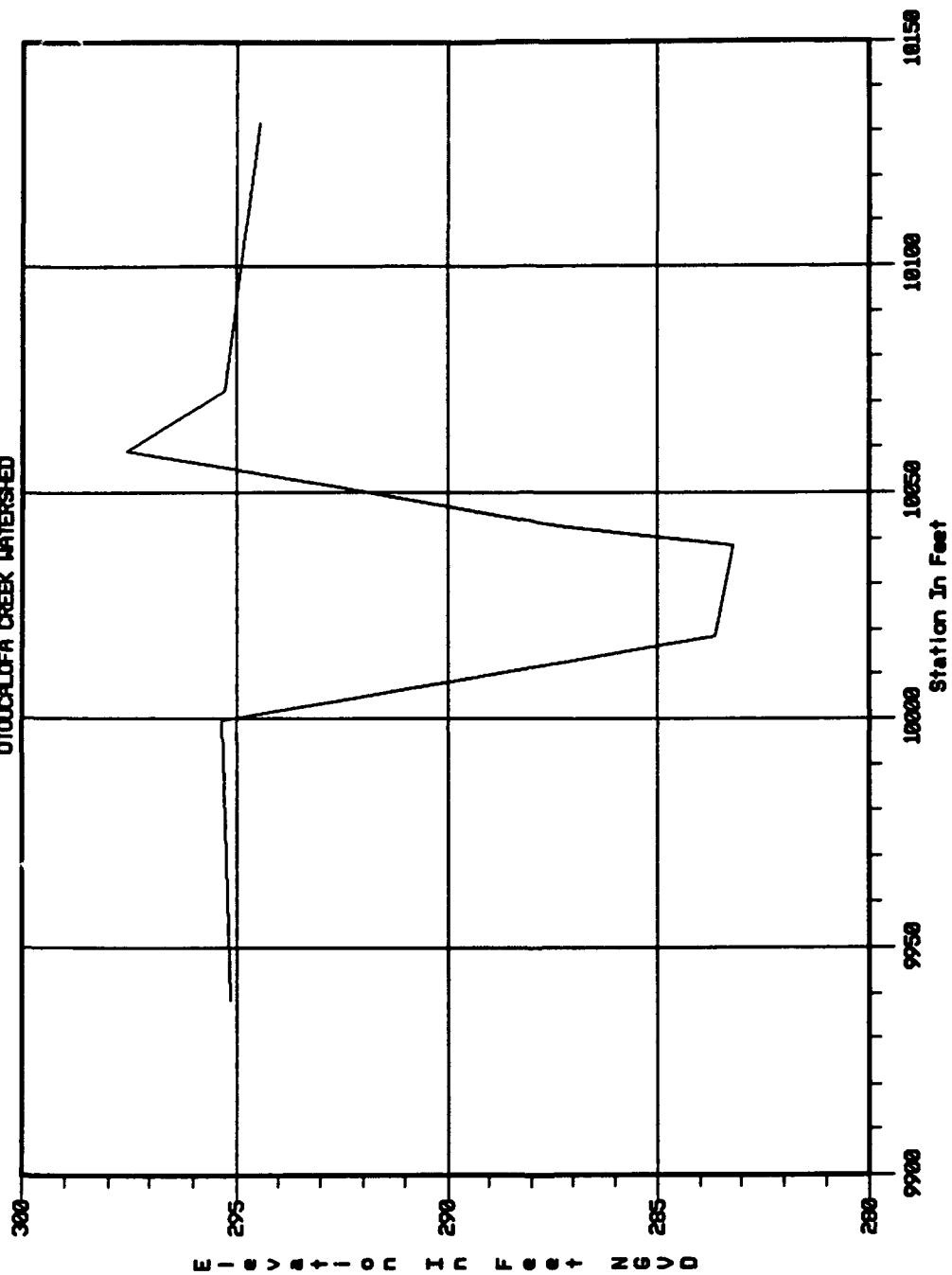


Plate C110

# OTOLUALOFA CREEK WATERSHED



WEST JOHNSON CREEK 1965 XSEC 1885

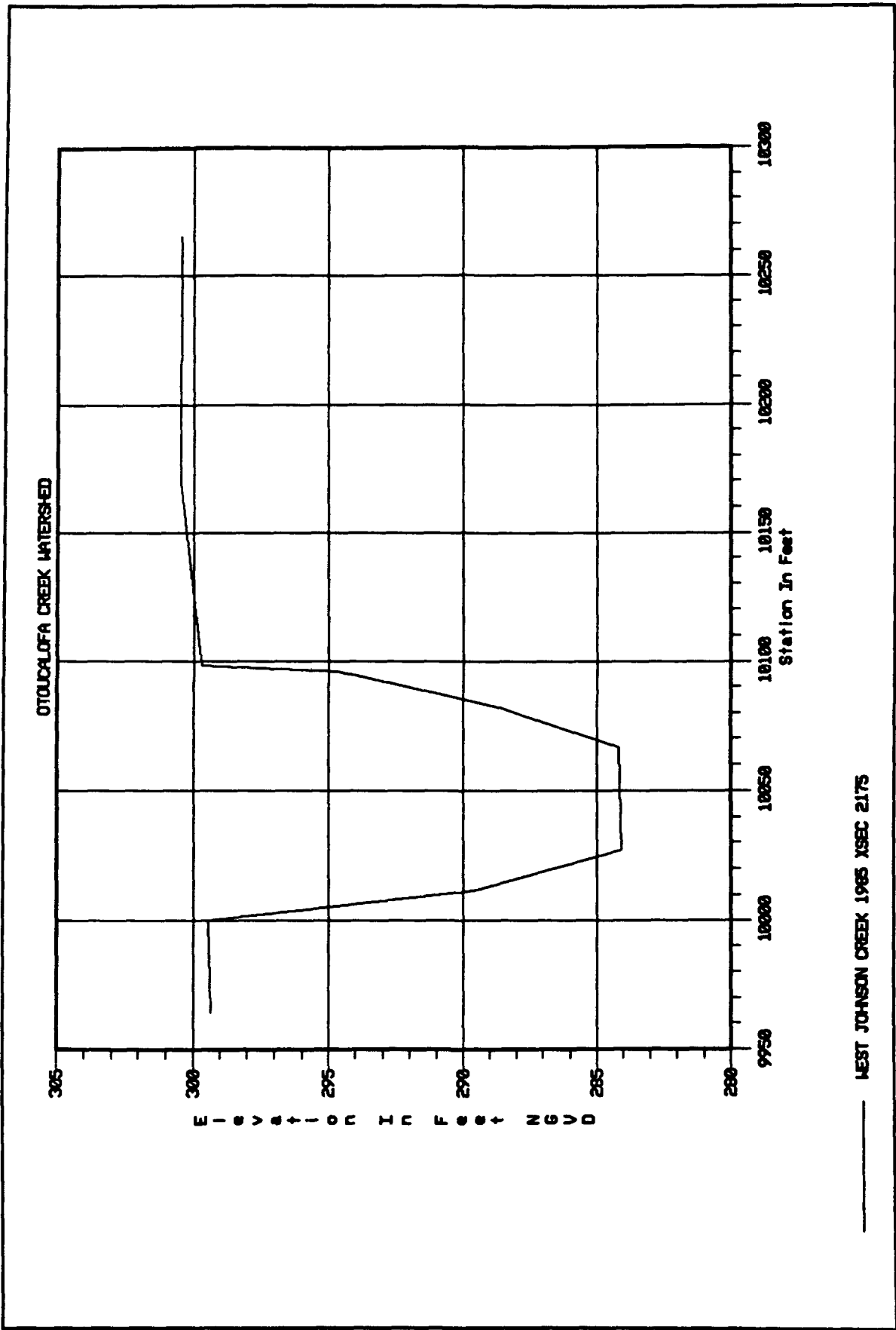
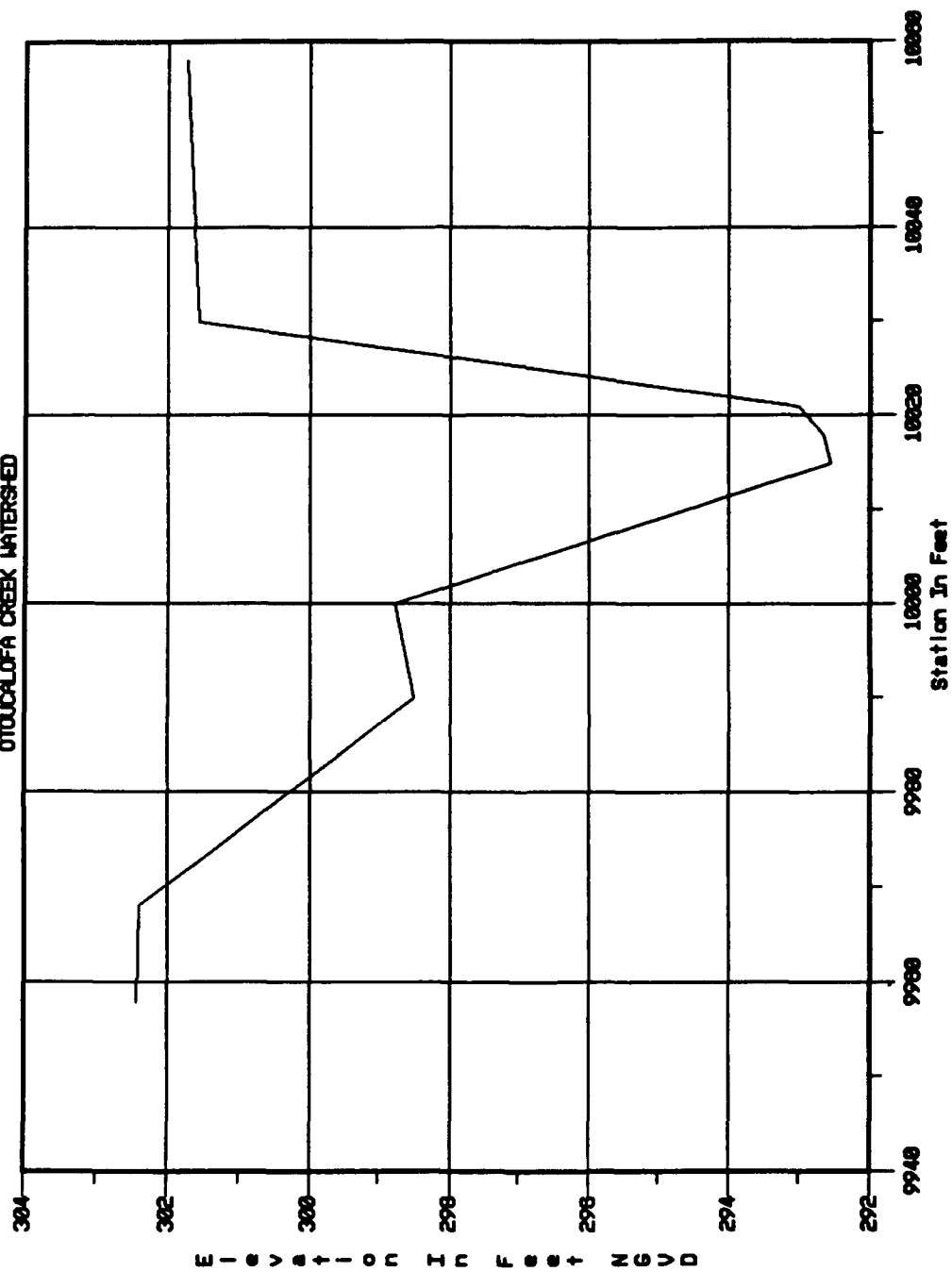


Plate C112

# OTOUCALOFA CREEK WATERSHED



WEST JOHNSON CREEK 1985 XSEC 3800



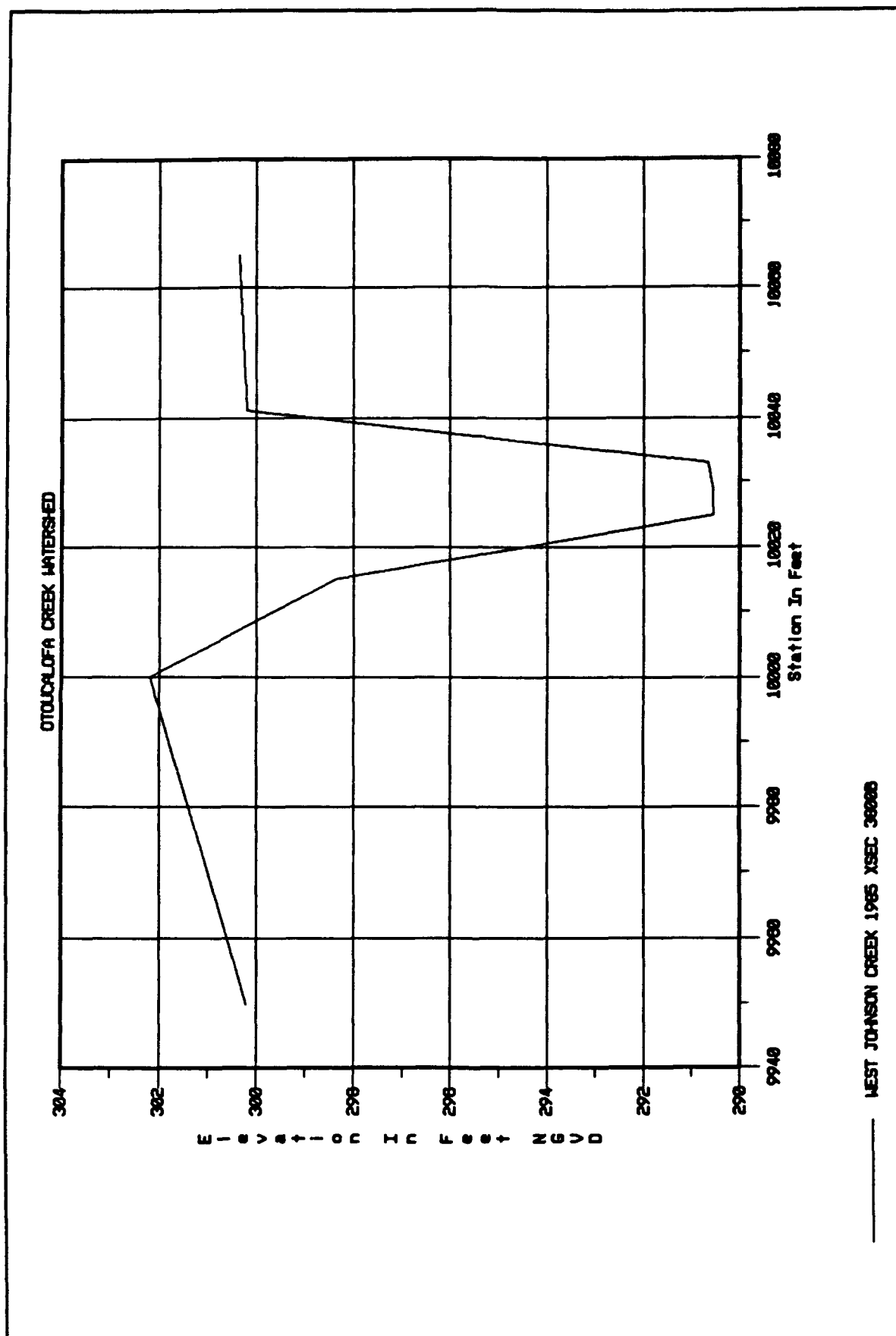
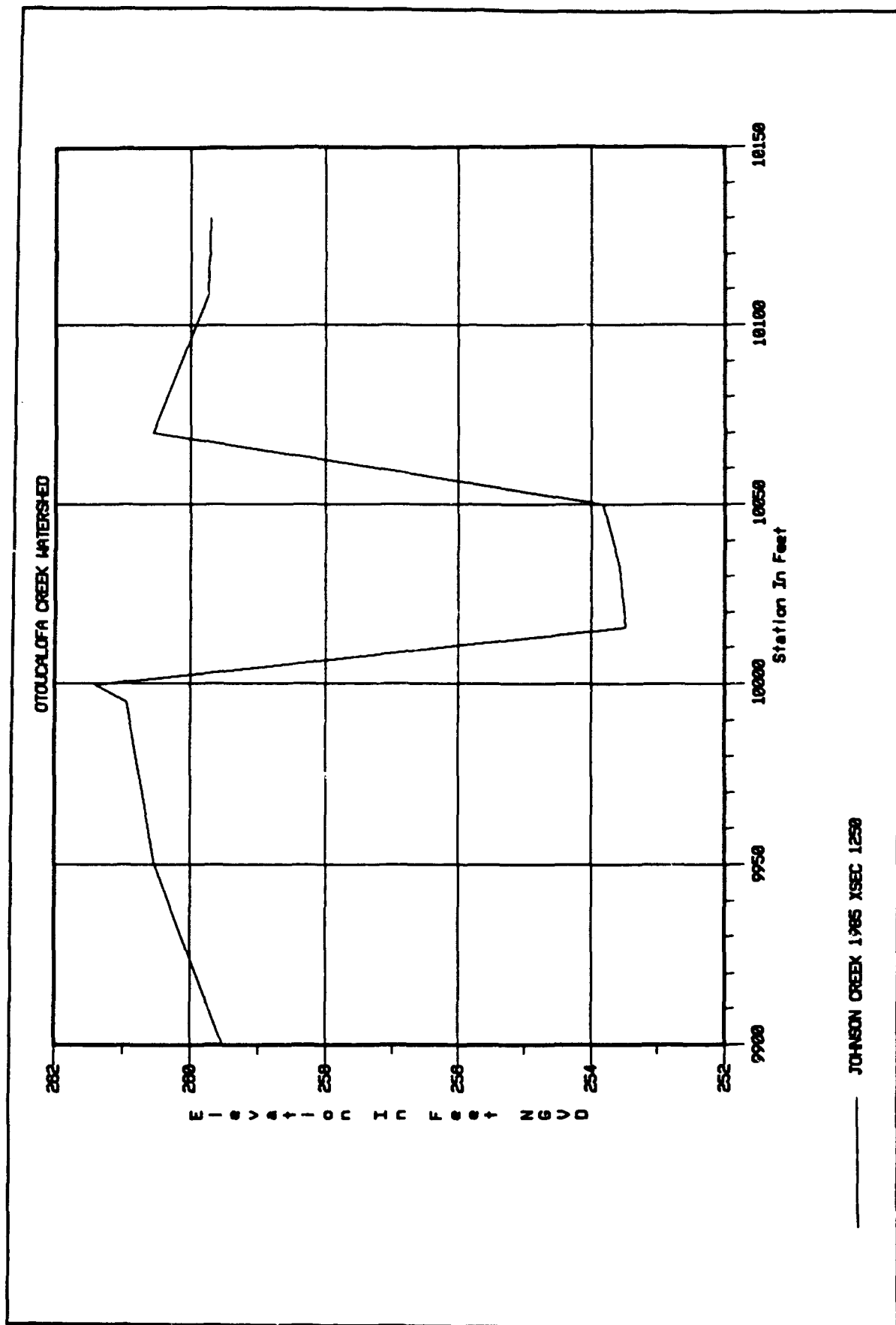


Plate C114



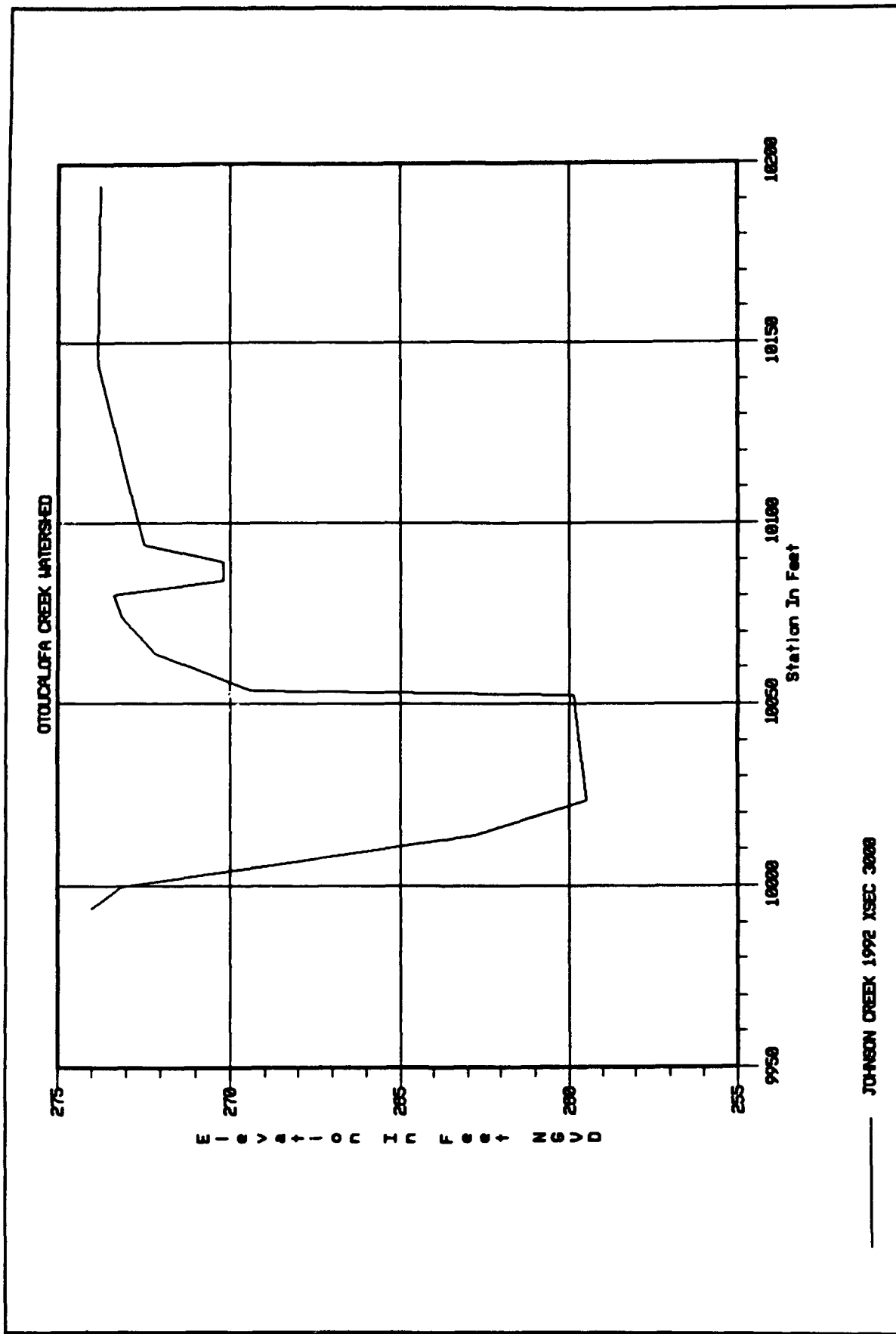
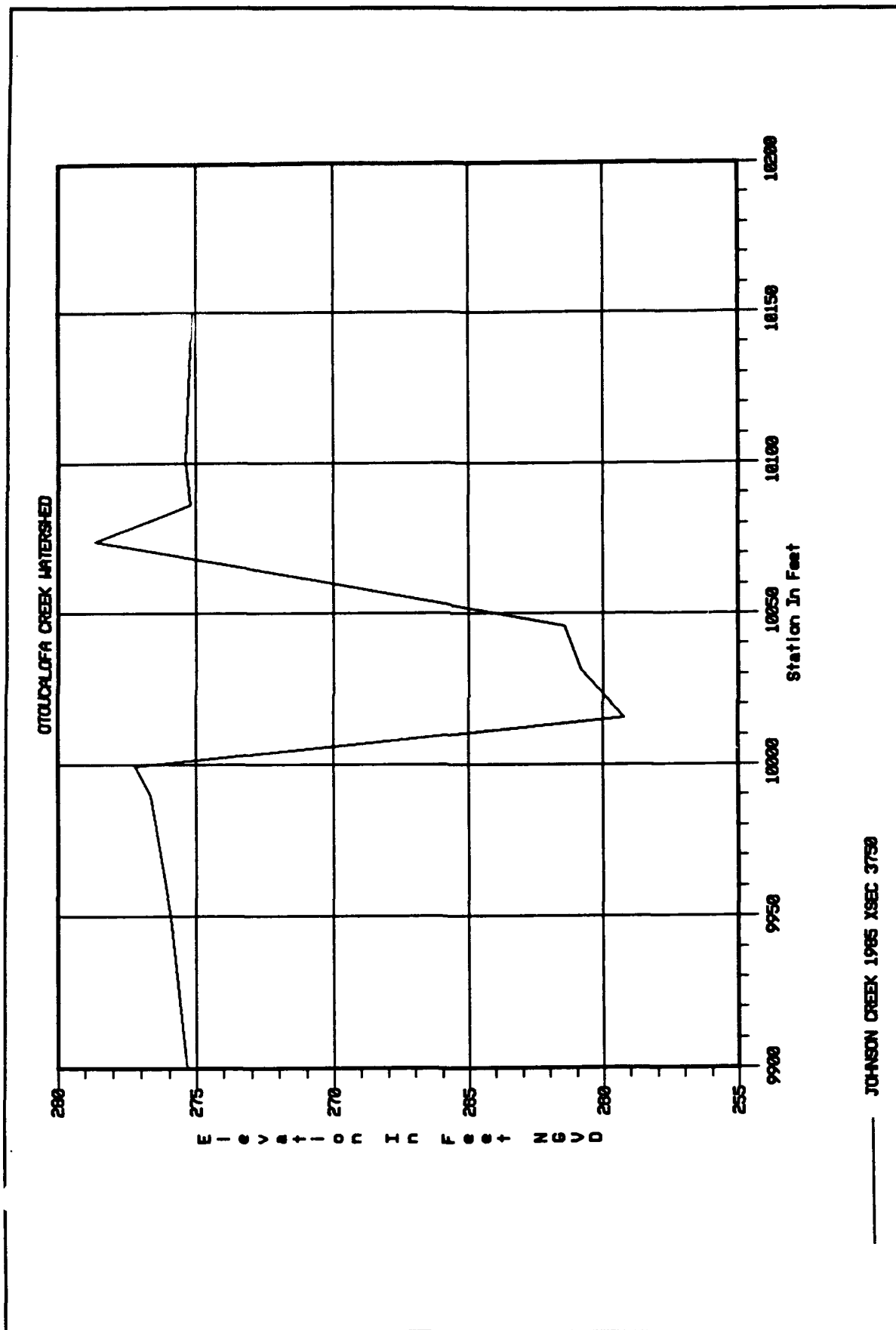


Plate C116



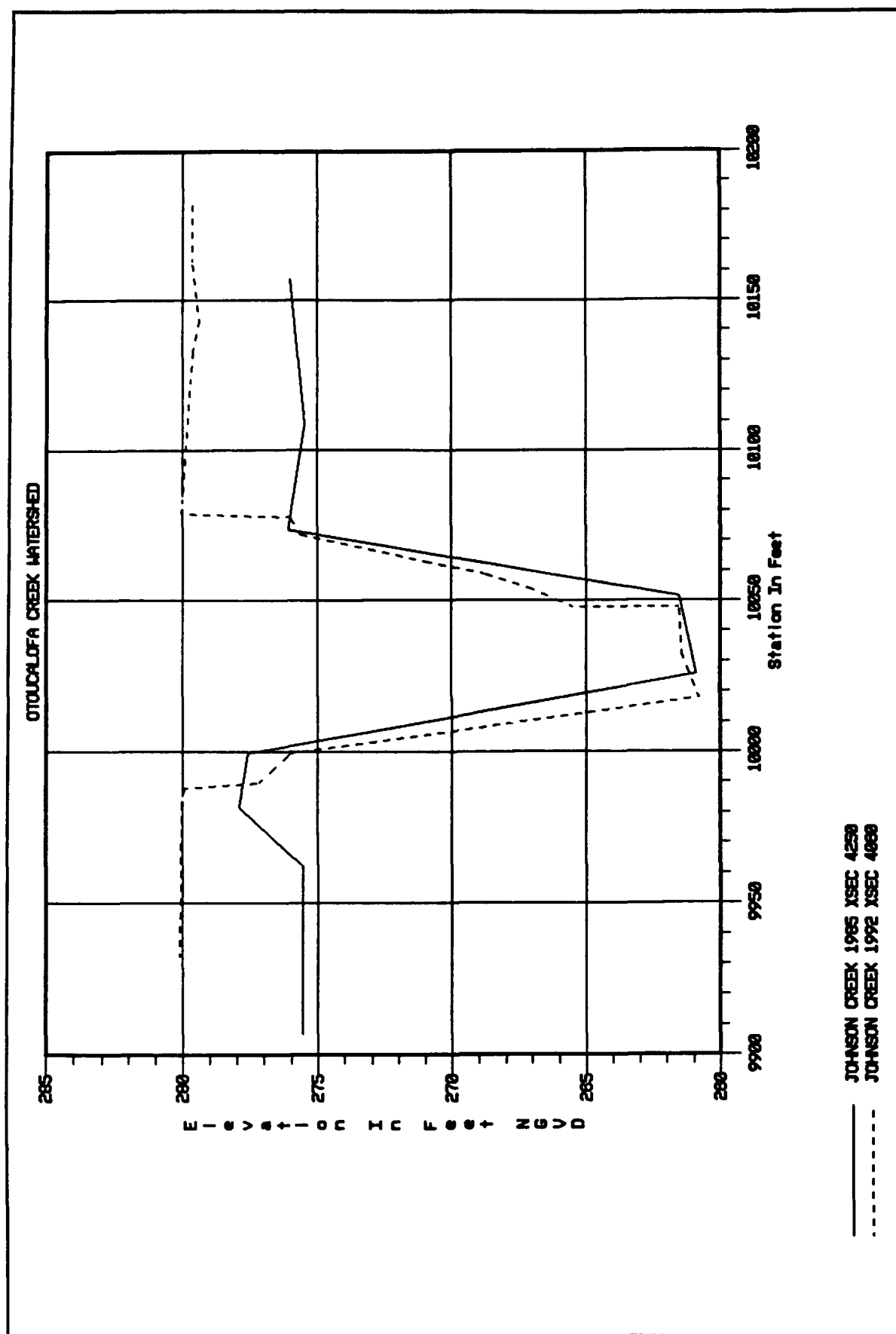
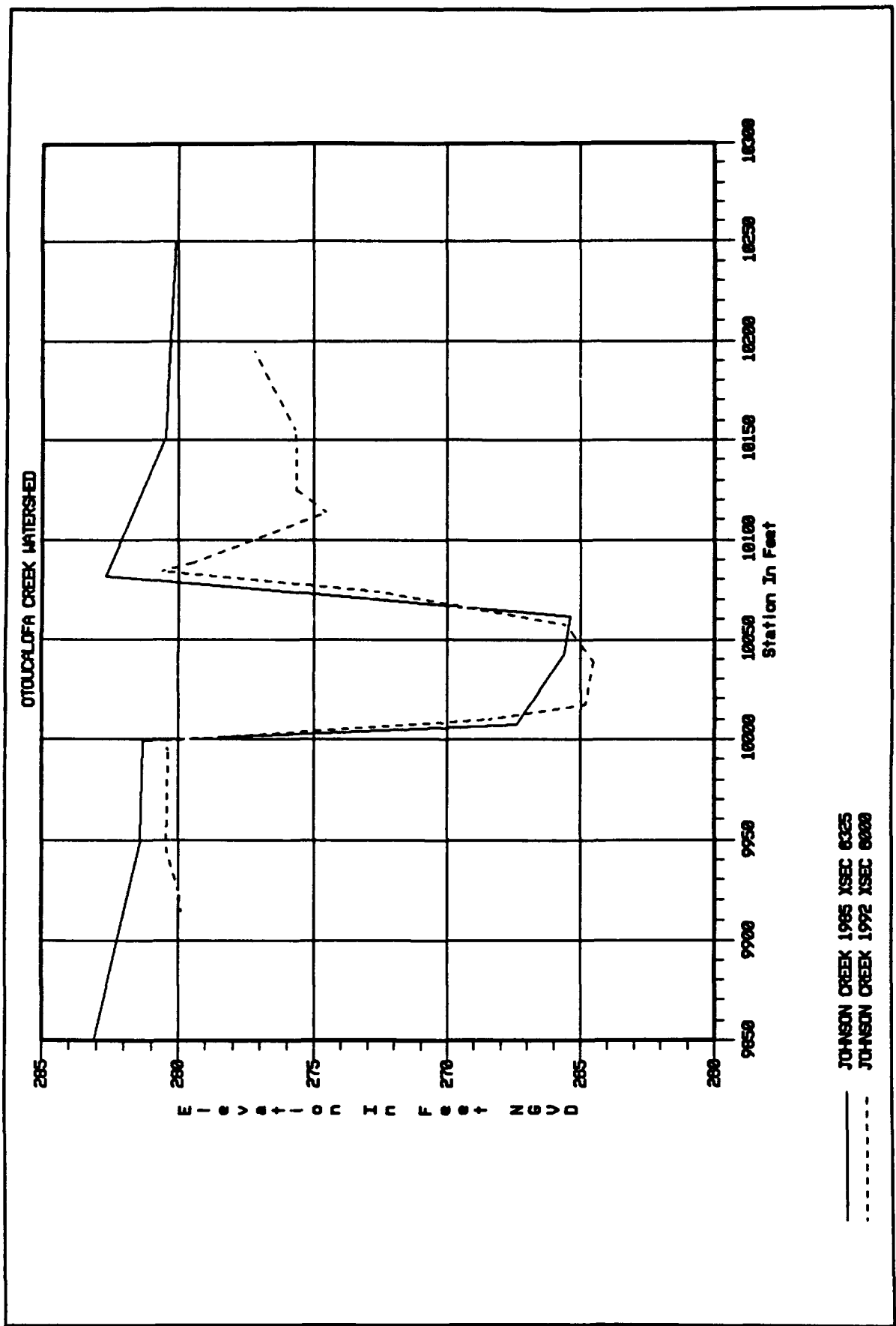


Plate C118



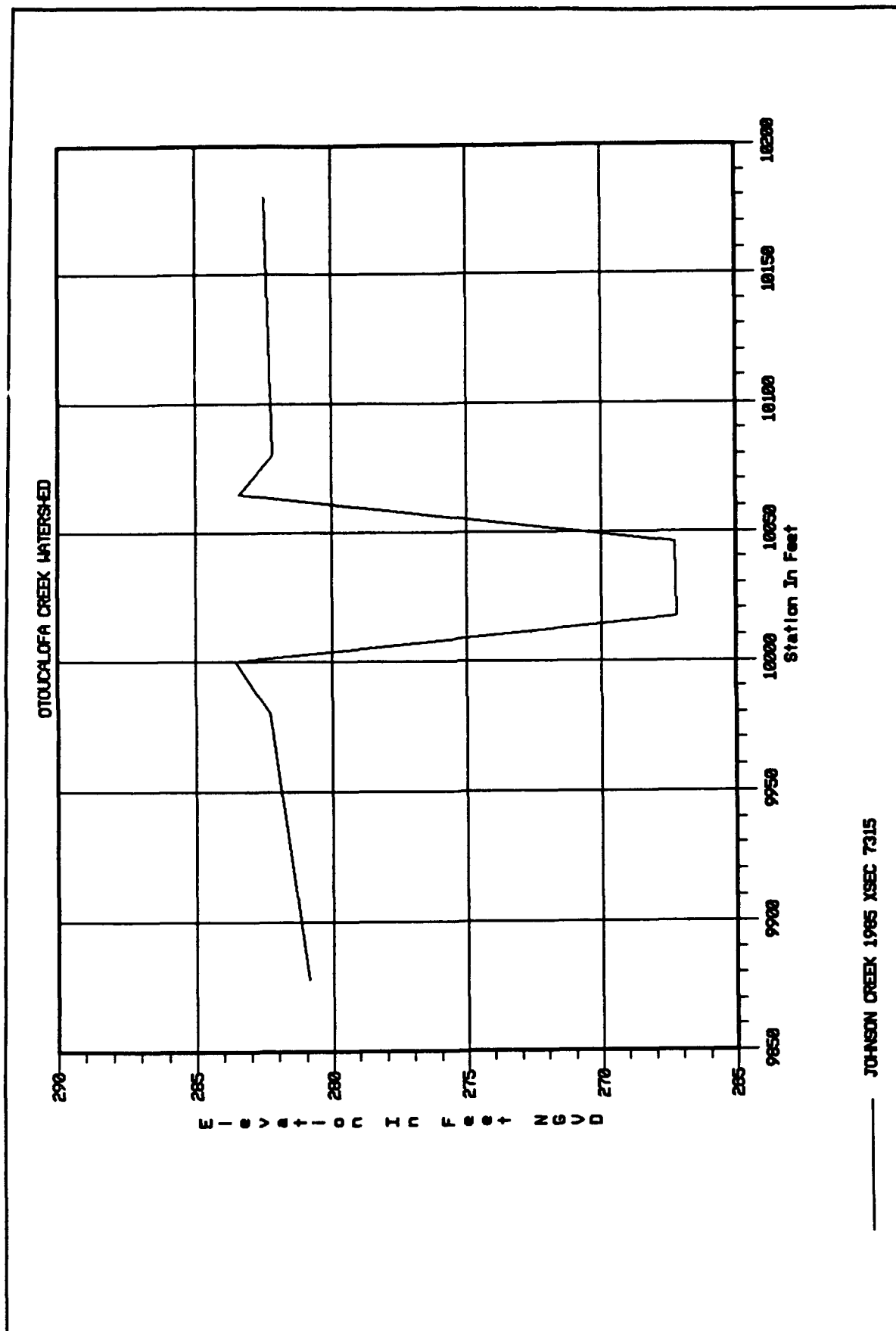
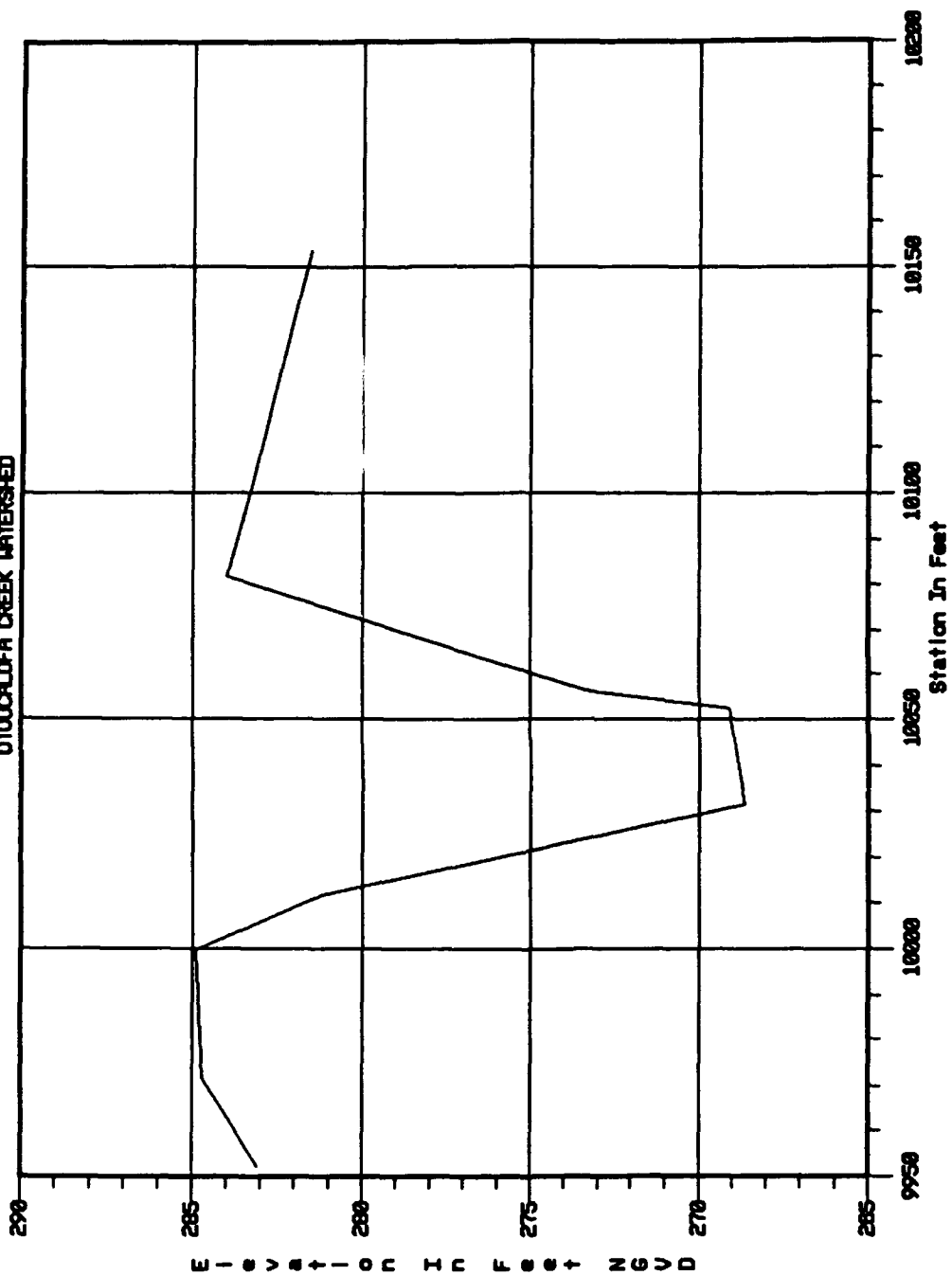


Plate C120

# OTOLUCHLOFA CREEK WATERSHED



JOHNSON CREEK 1965 XSEC 7900



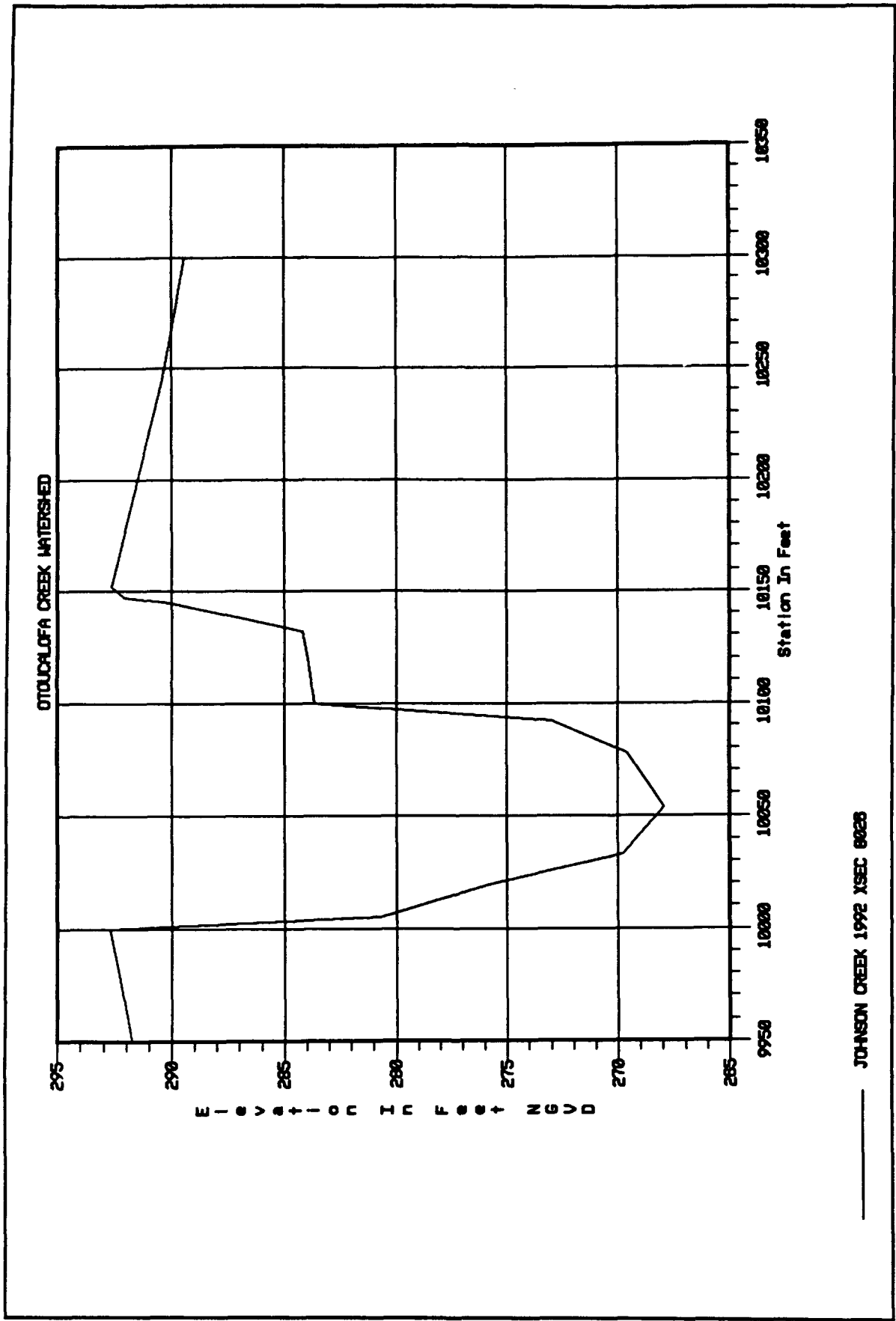
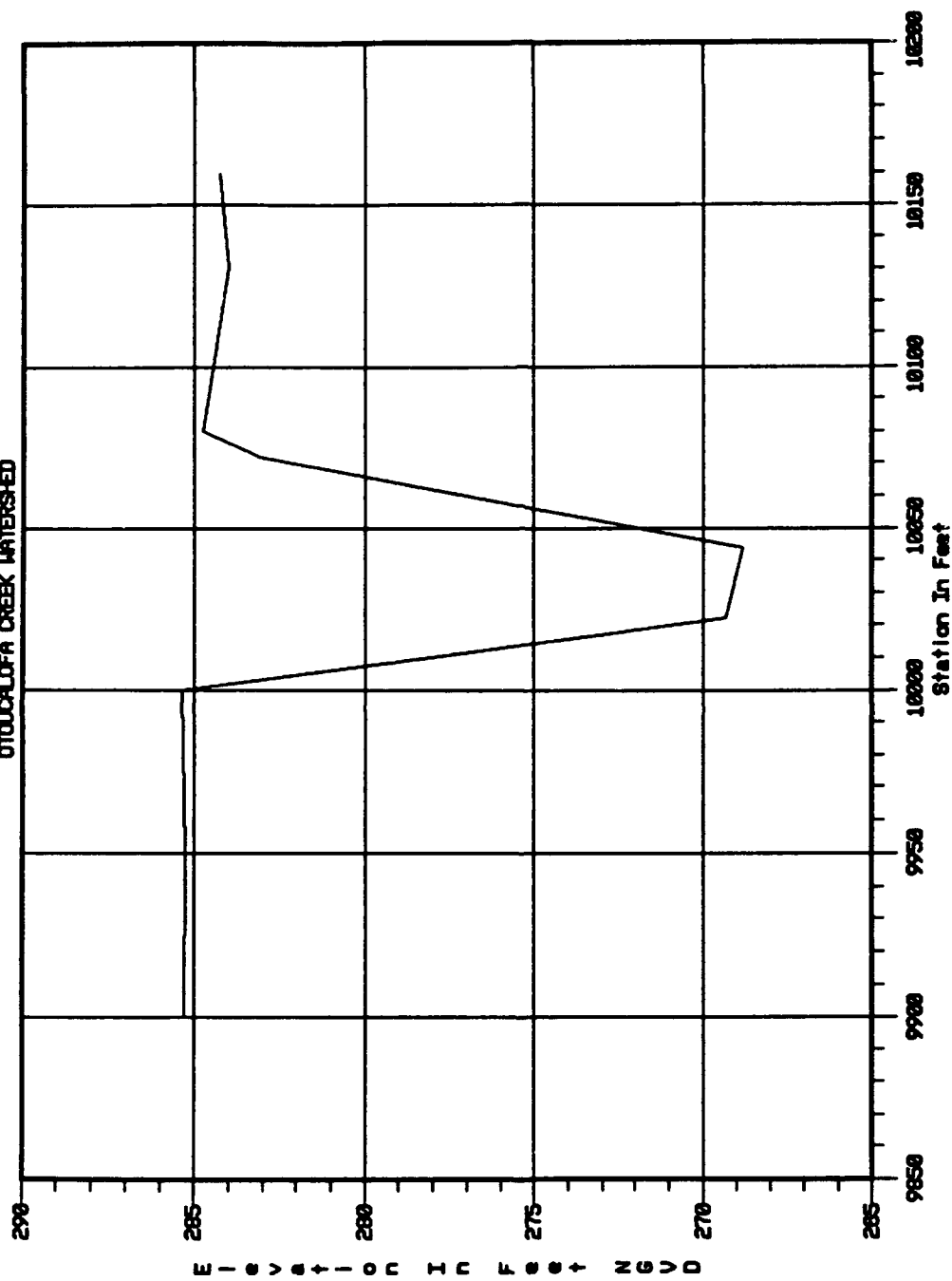


Plate C122

# OTOJUALOFA CREEK WATERSHED



JOHNSON CREEK 1985 XSEC 8375

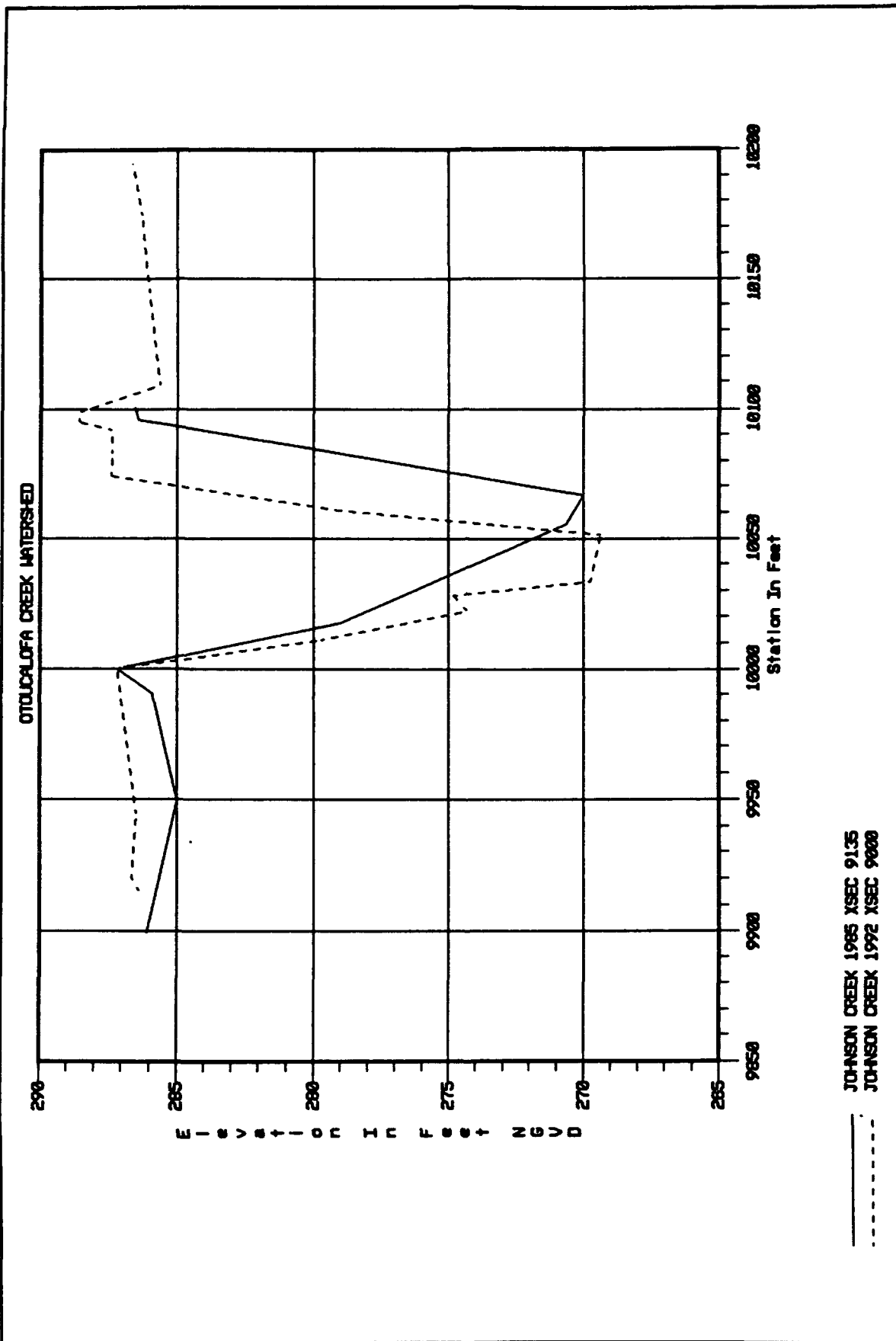
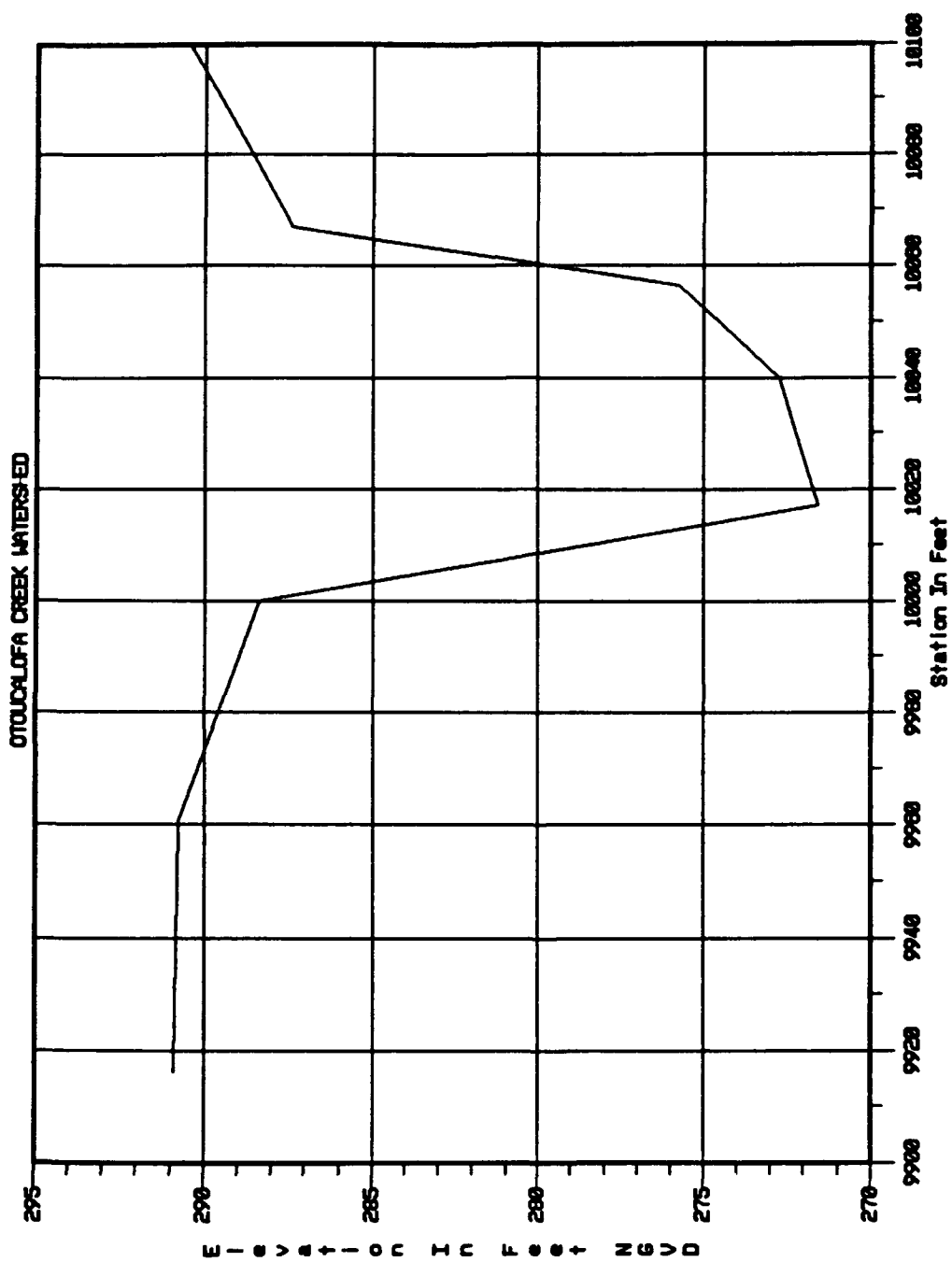


Plate C124



JOHNSON CREEK 1985 XSEC 9535

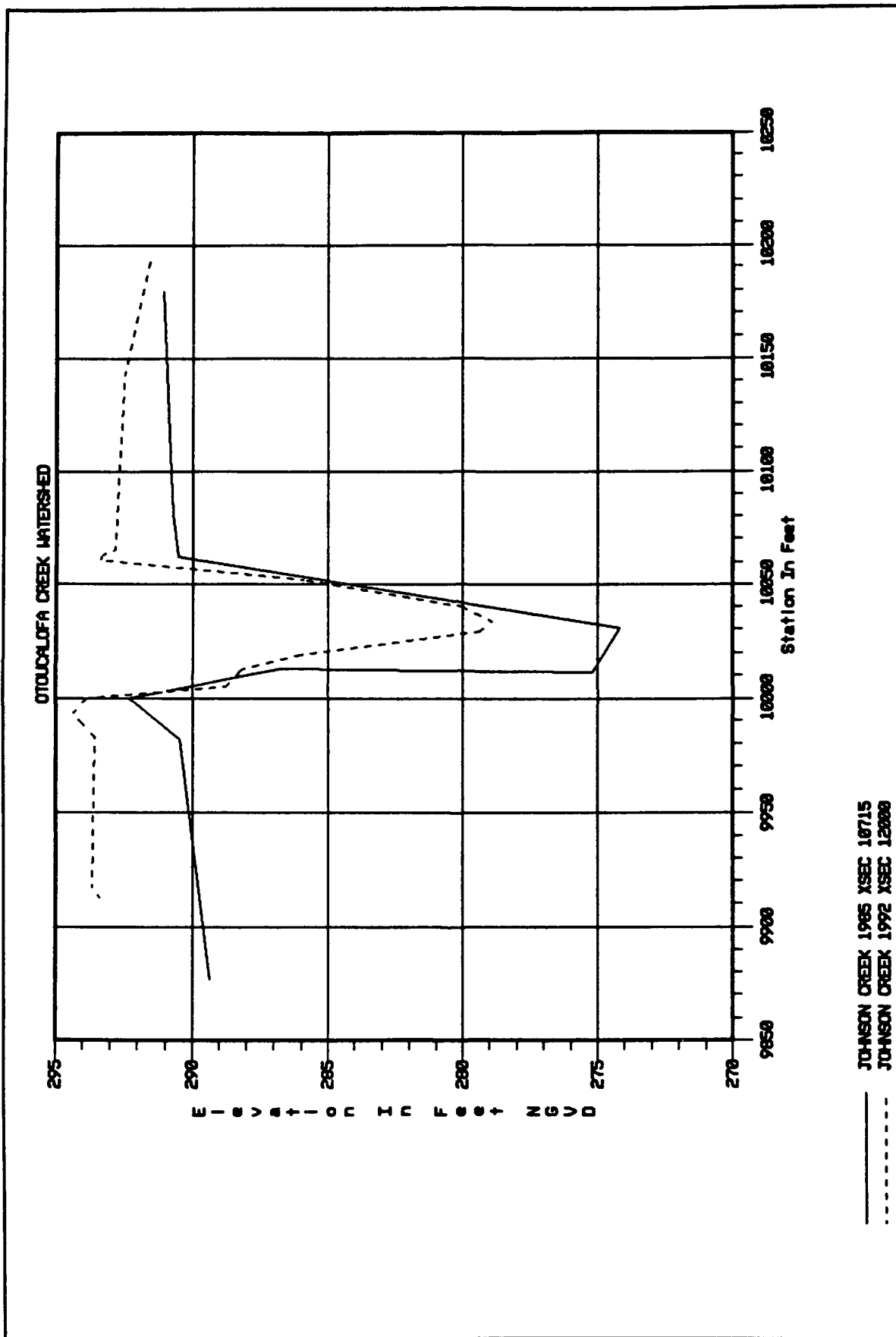
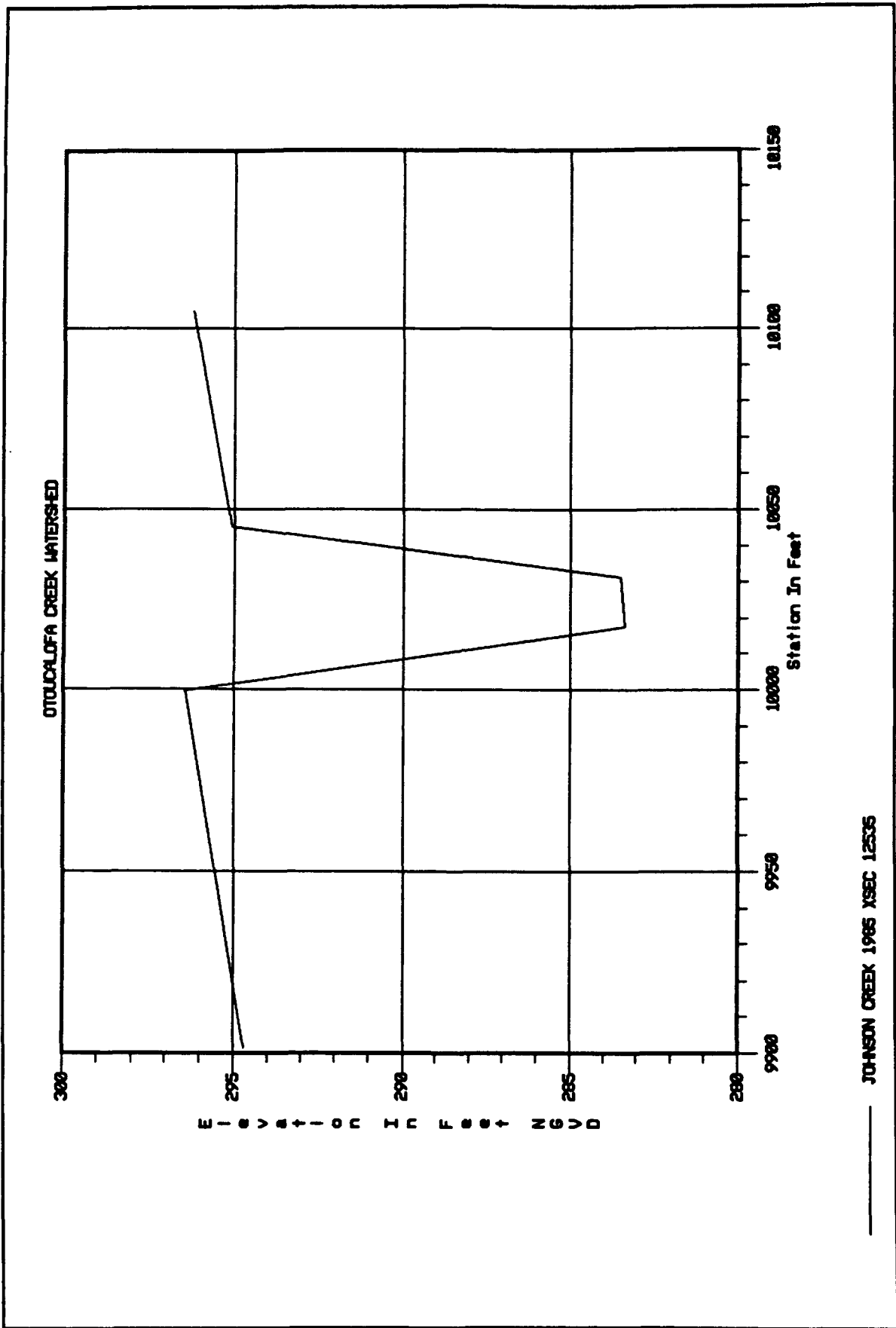


Plate C126



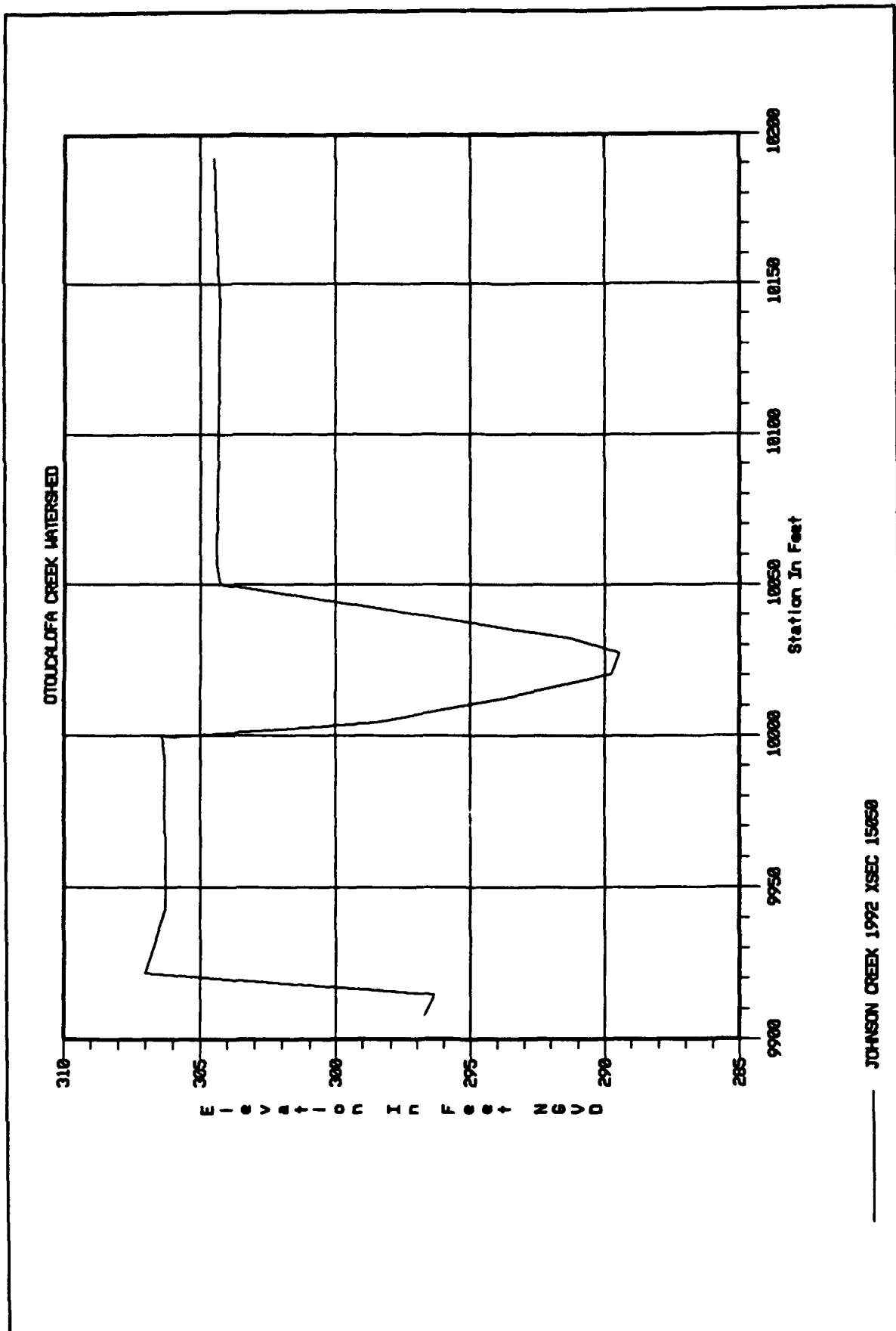
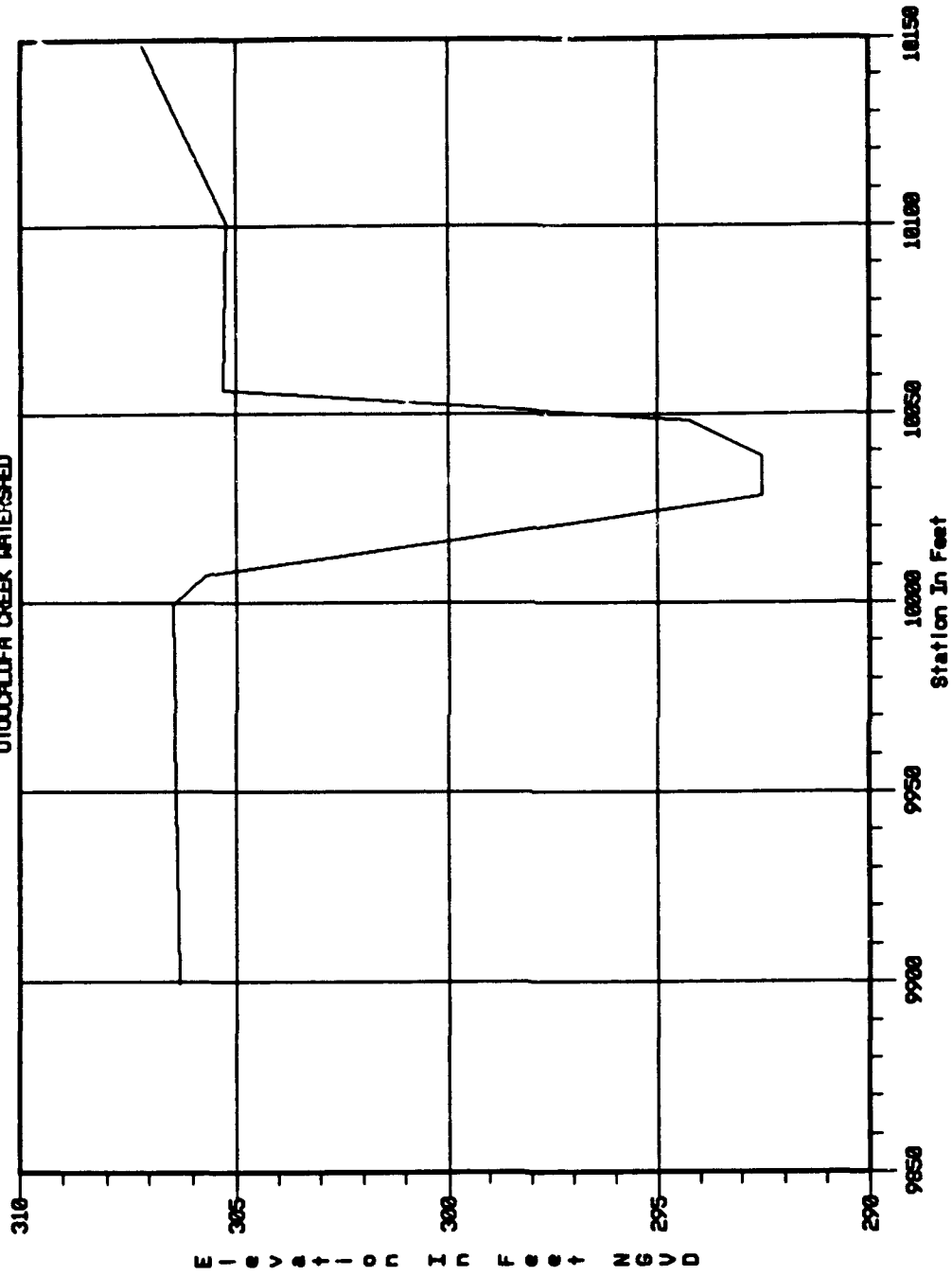


Plate C128

OTOUCALOFA CREEK WATERSHED



JOHNSON CREEK 1965 XSEC 15300



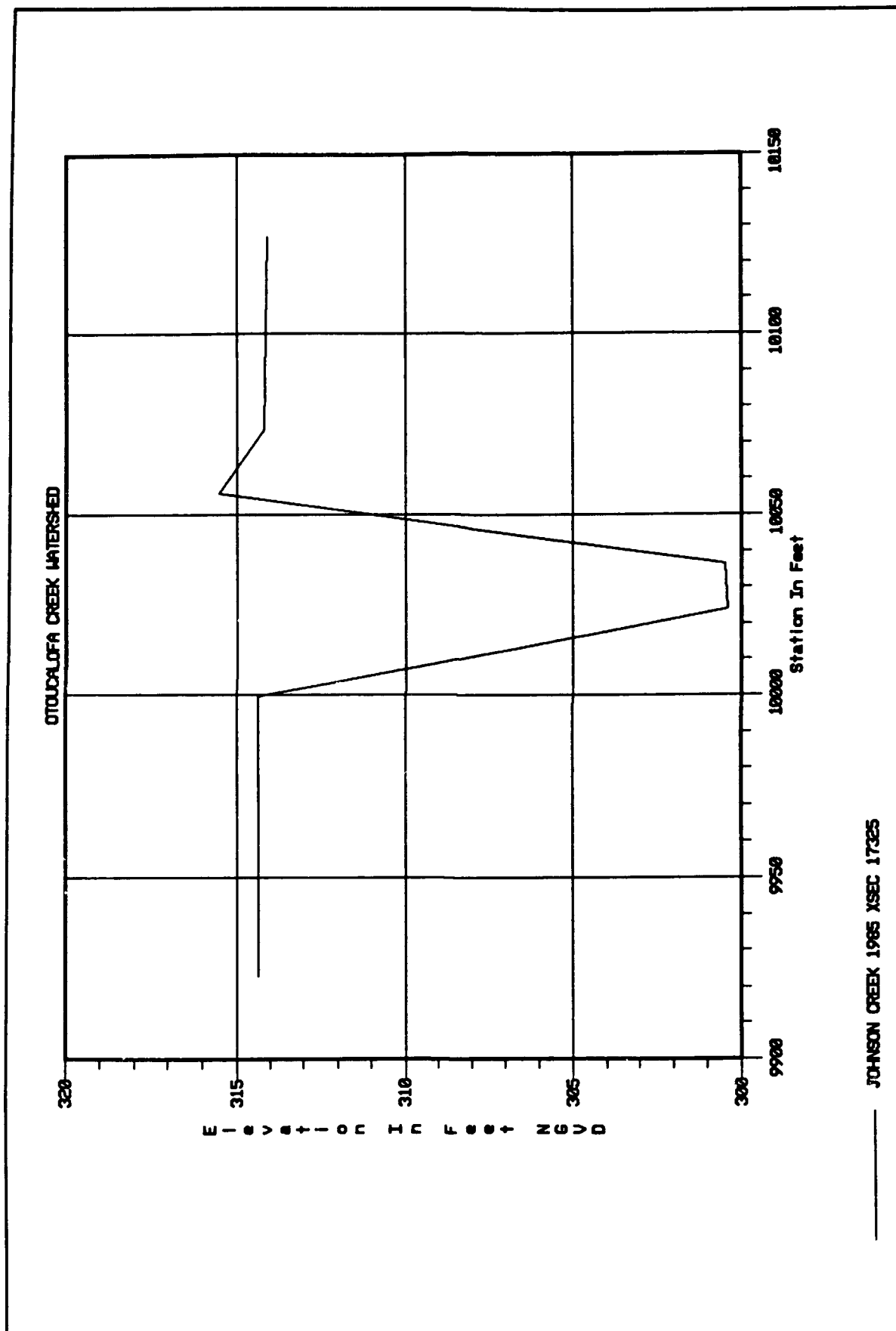
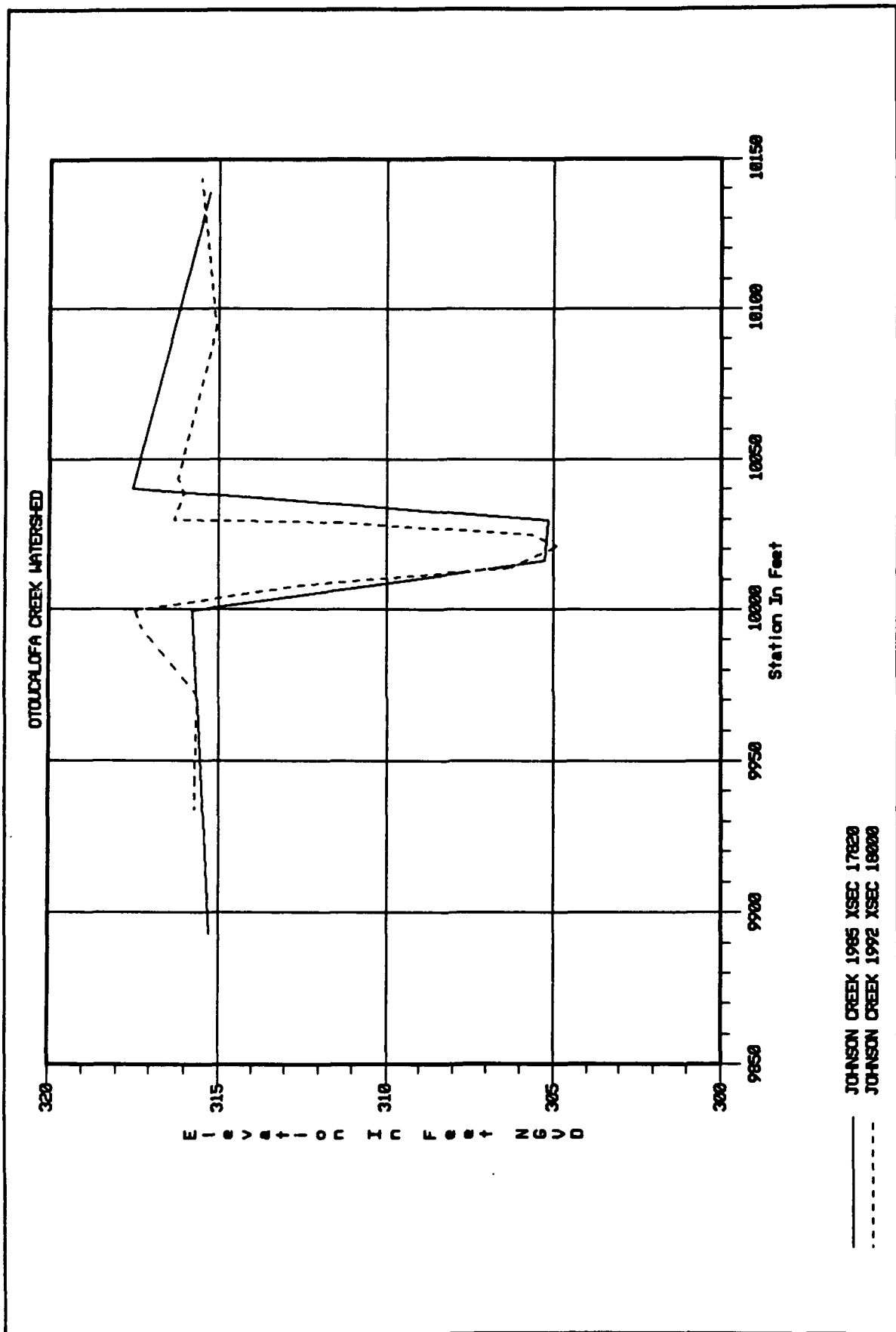
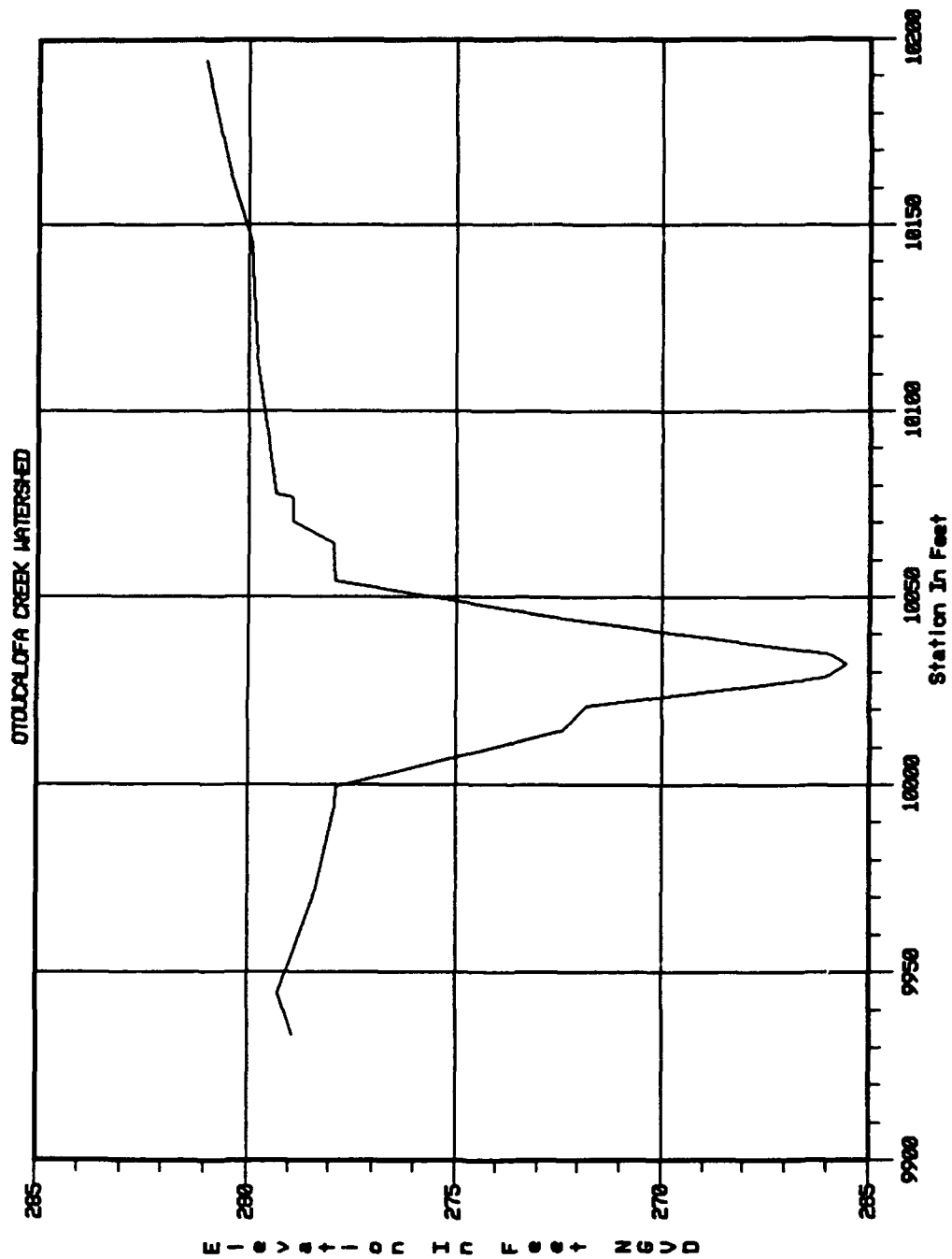
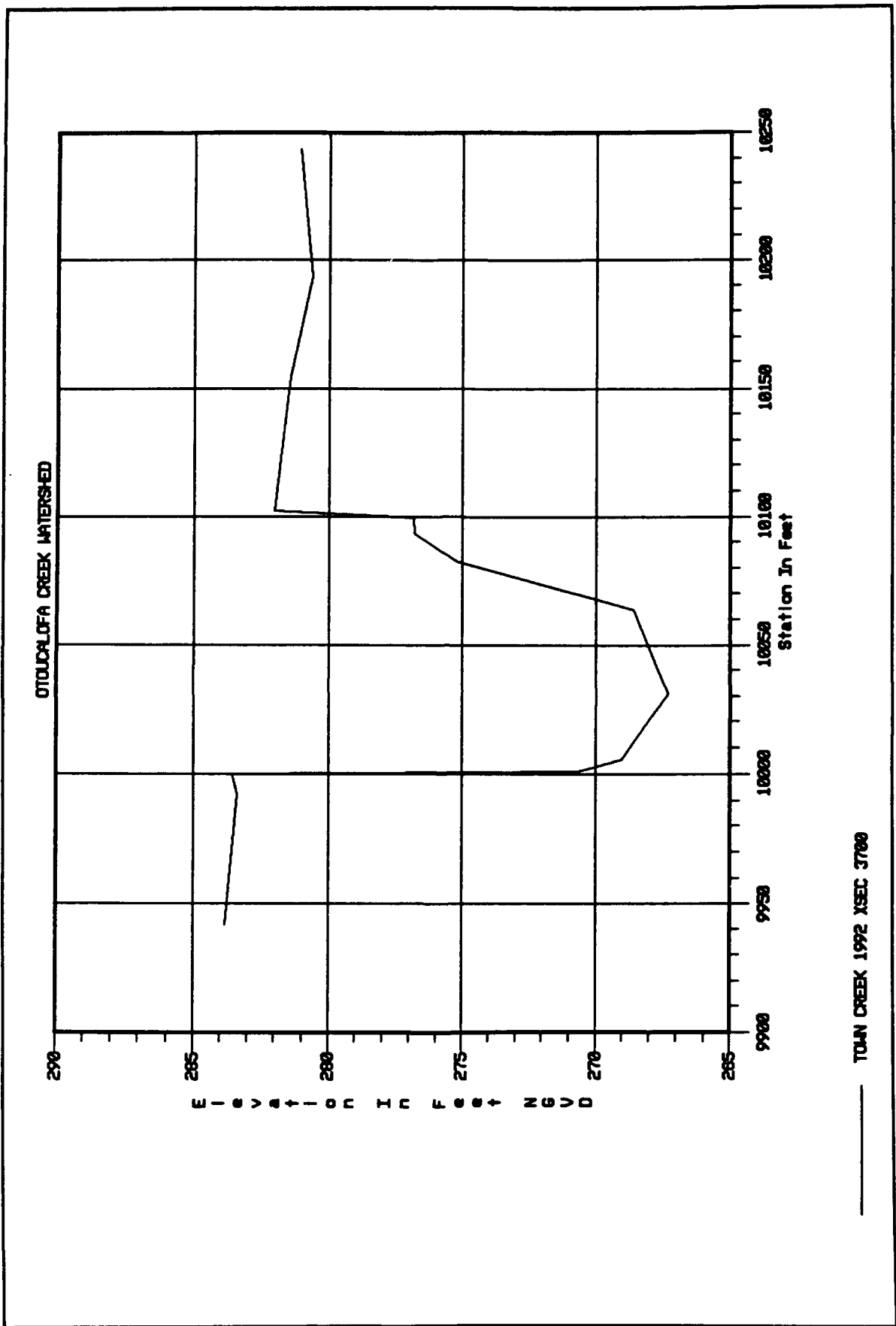


Plate C130





TOAN CREEK 1992 XSEC 3000



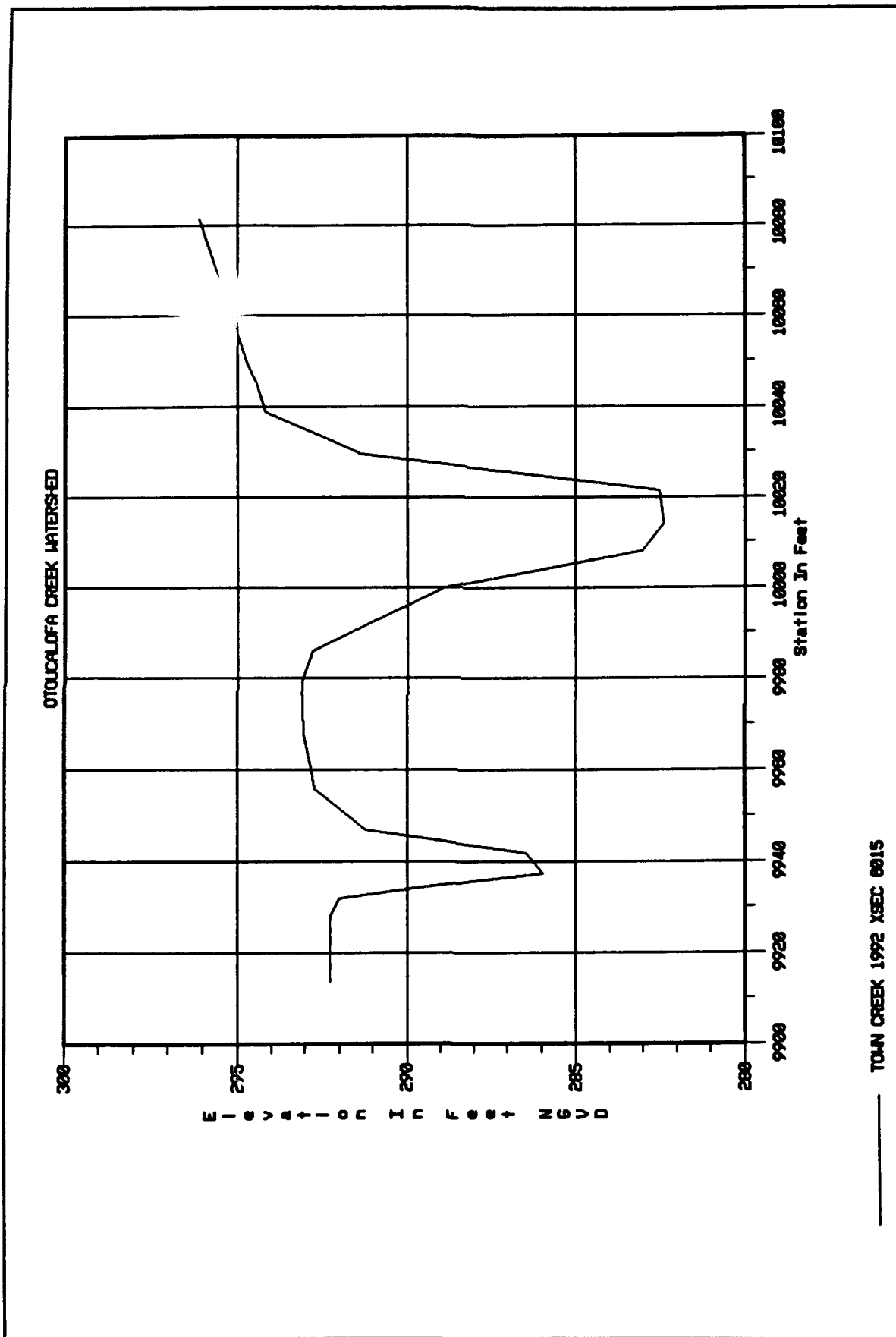
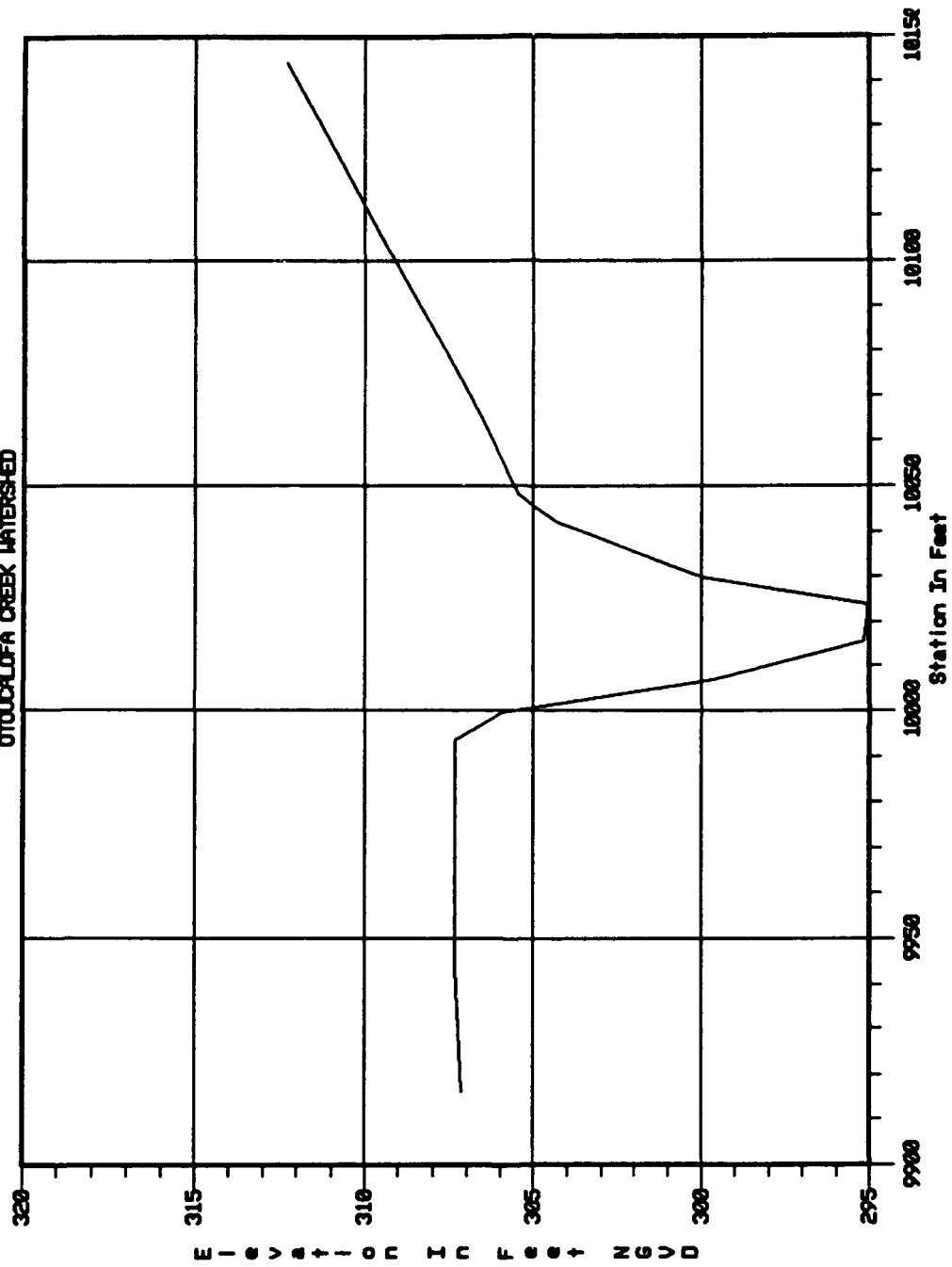


Plate C134

# OTOLUCKLOFA CREEK WATERSHED



—— TOWN CREEK 1992 XSEC 9000

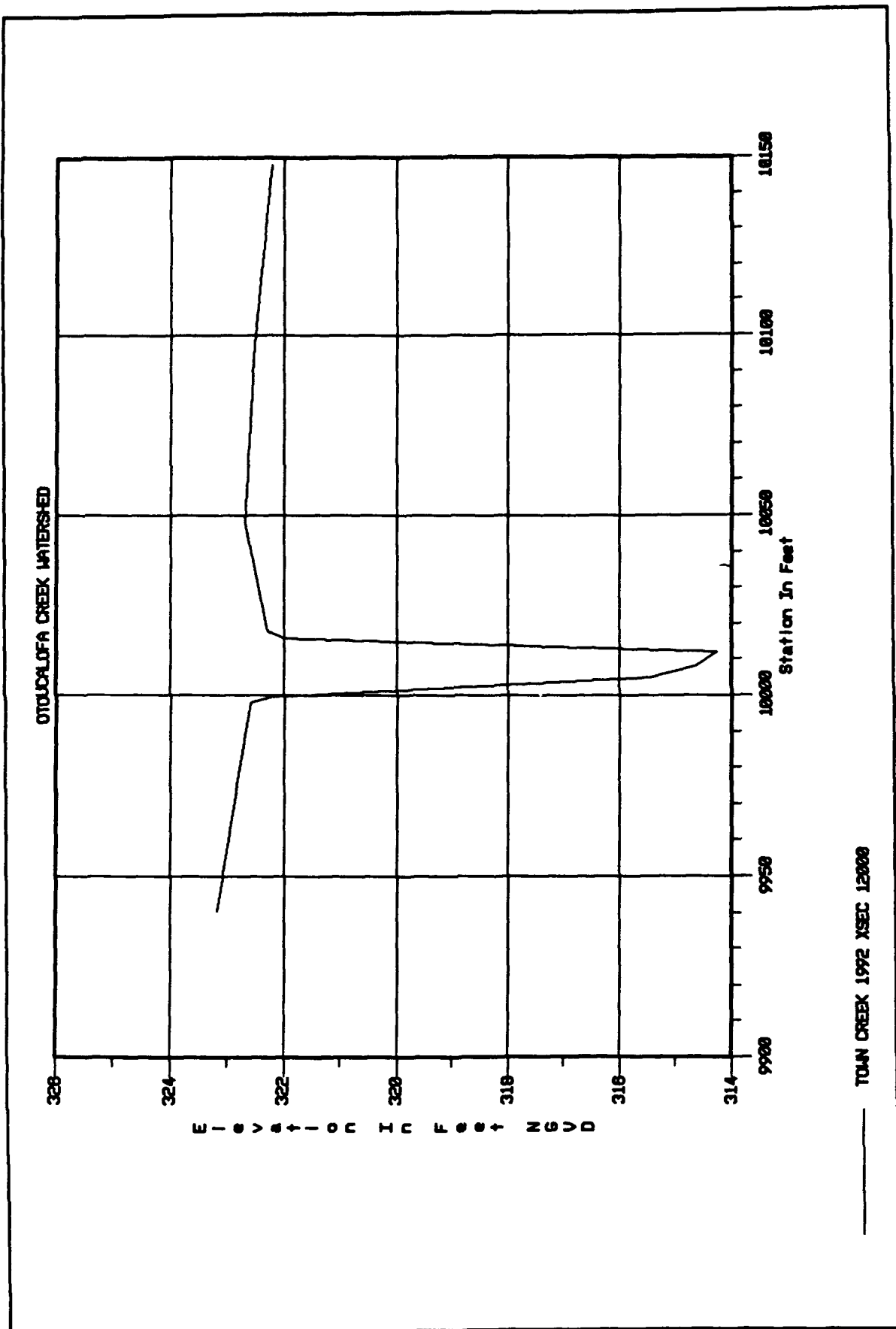
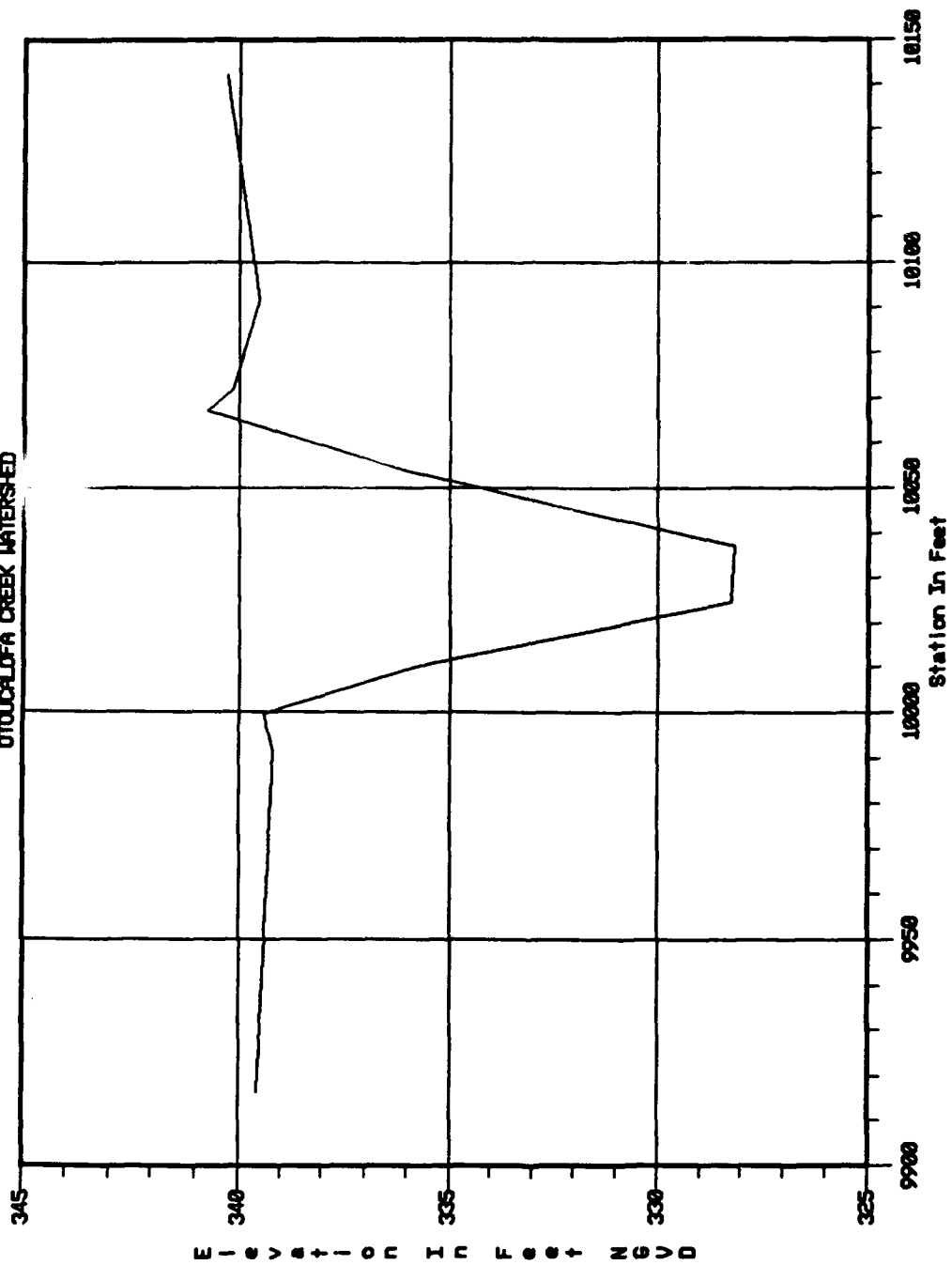


Plate C136

# OTOLUOLA CREEK WATERSHED



TOUJIN CREEK 1992 XSEC 14444



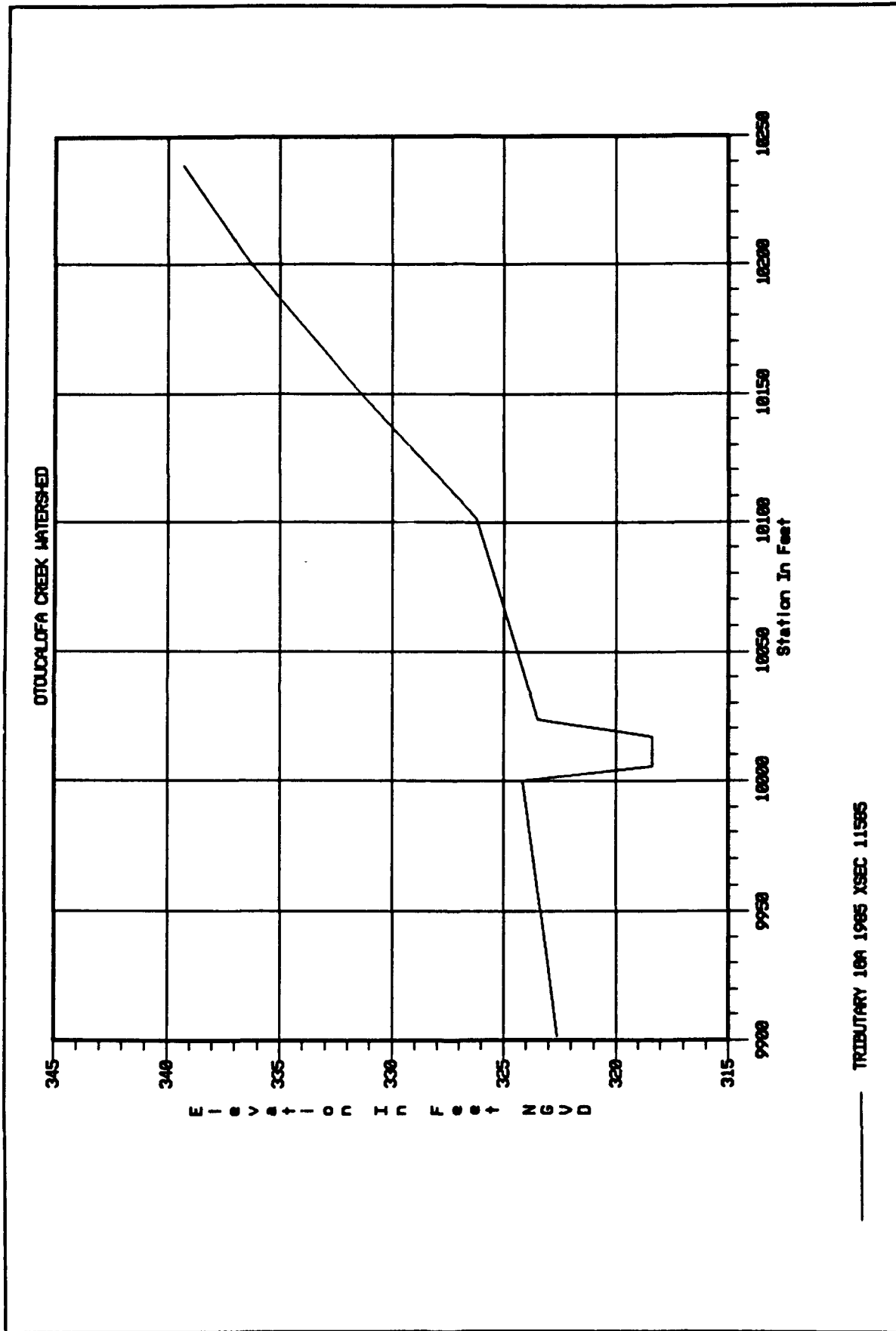
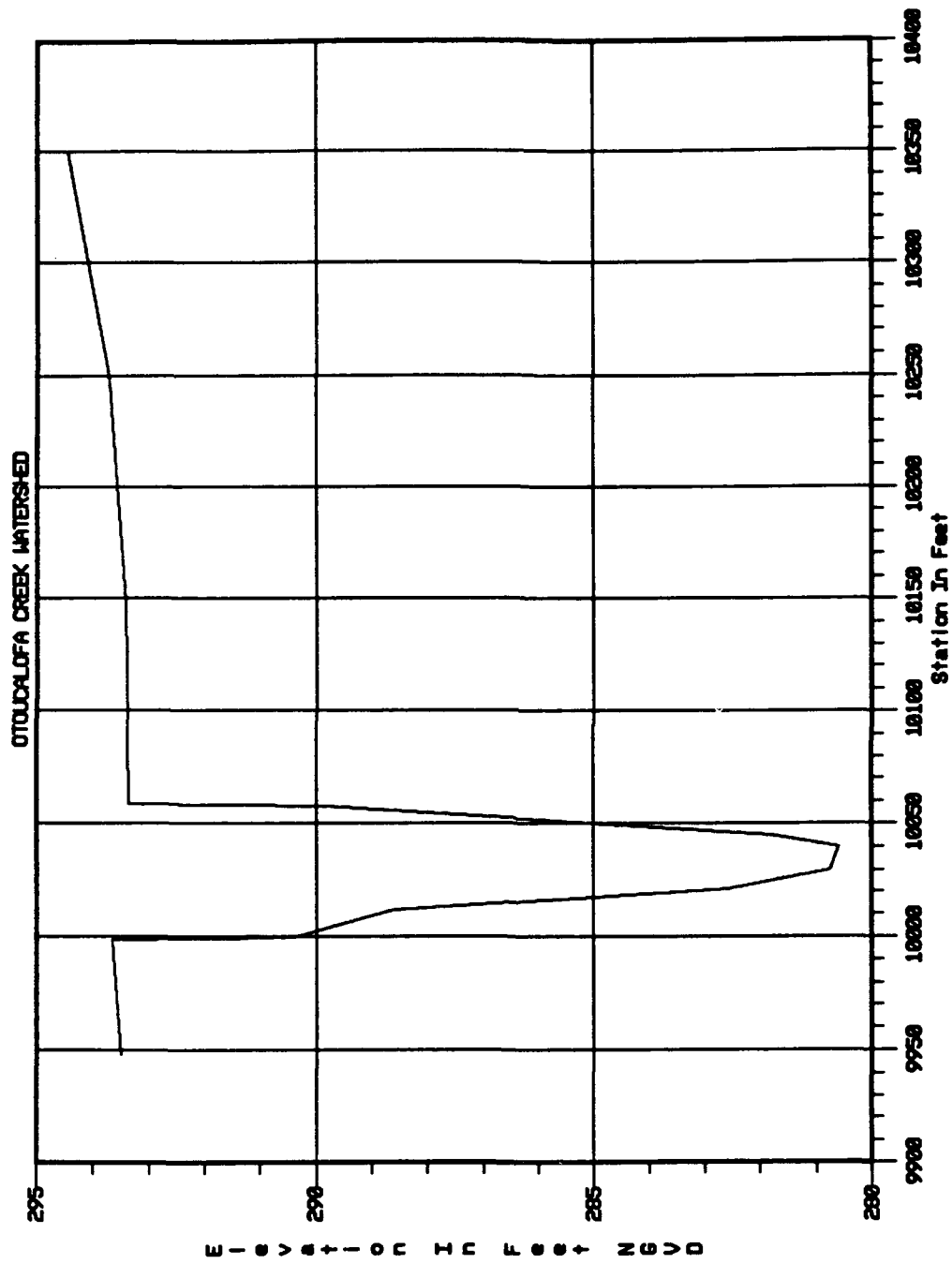


Plate C138



TRIBUTARY 10A 1985 XSEC 2225

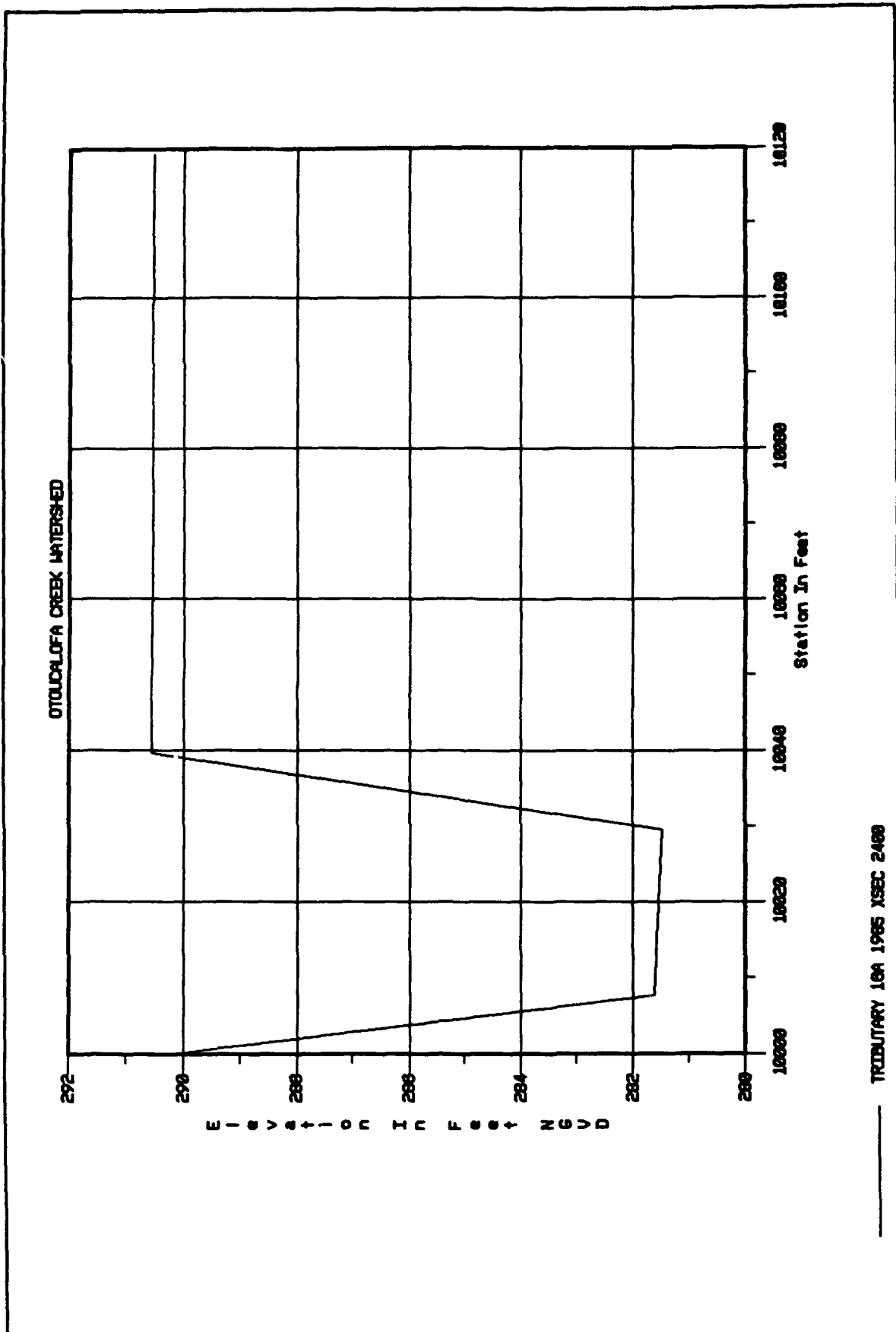
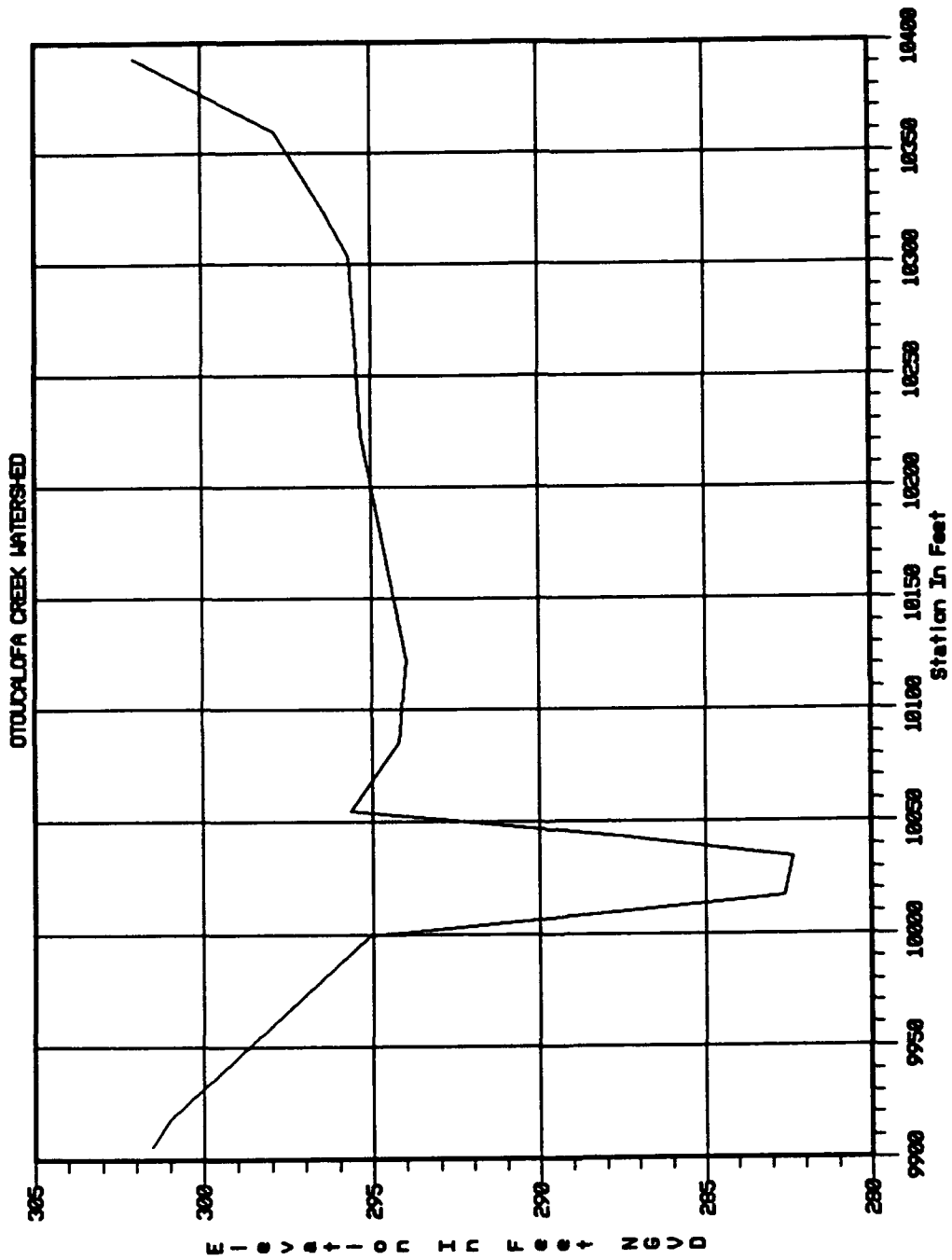


Plate C140



TRIBUTARY 18A 1985 XSEC 3650

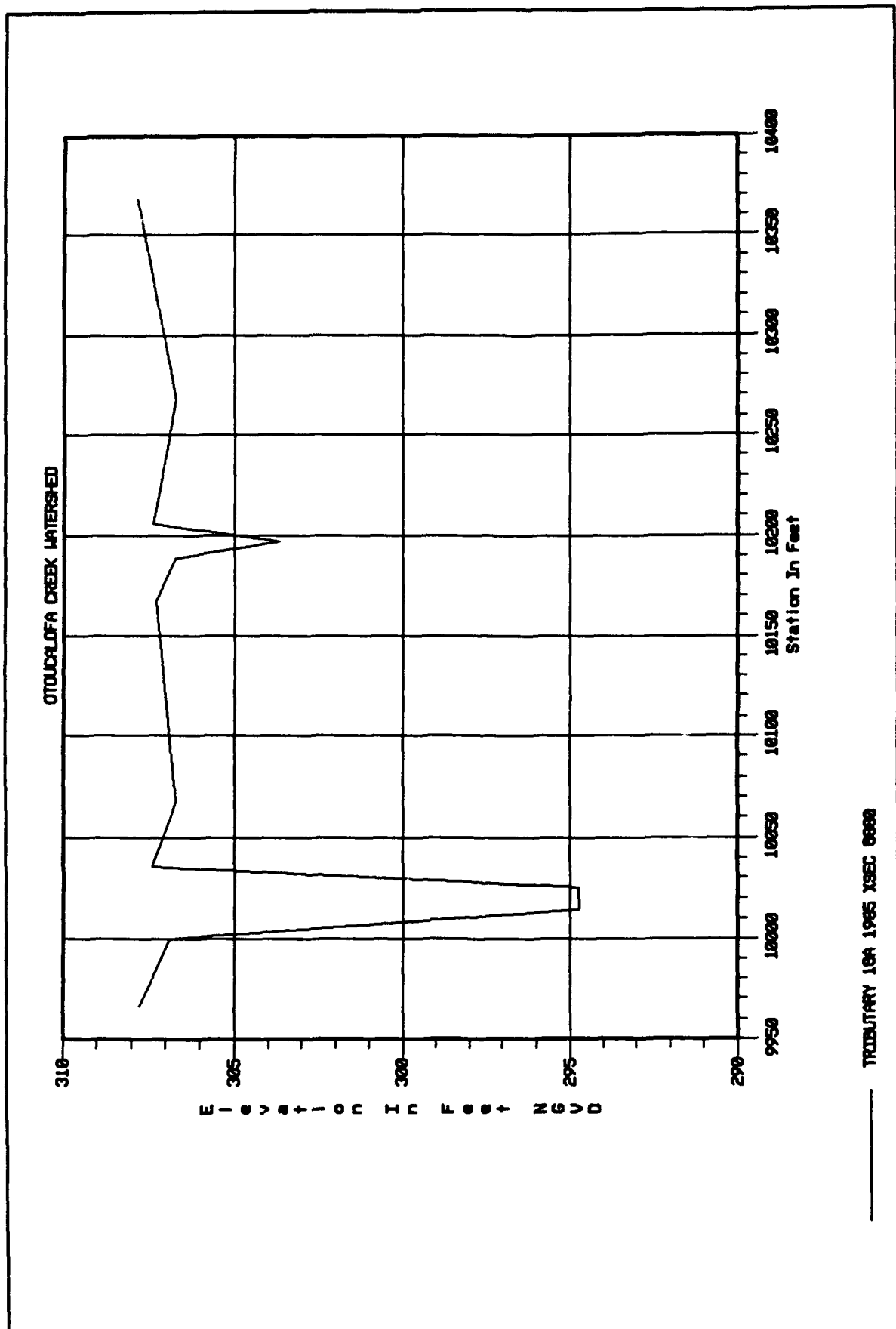
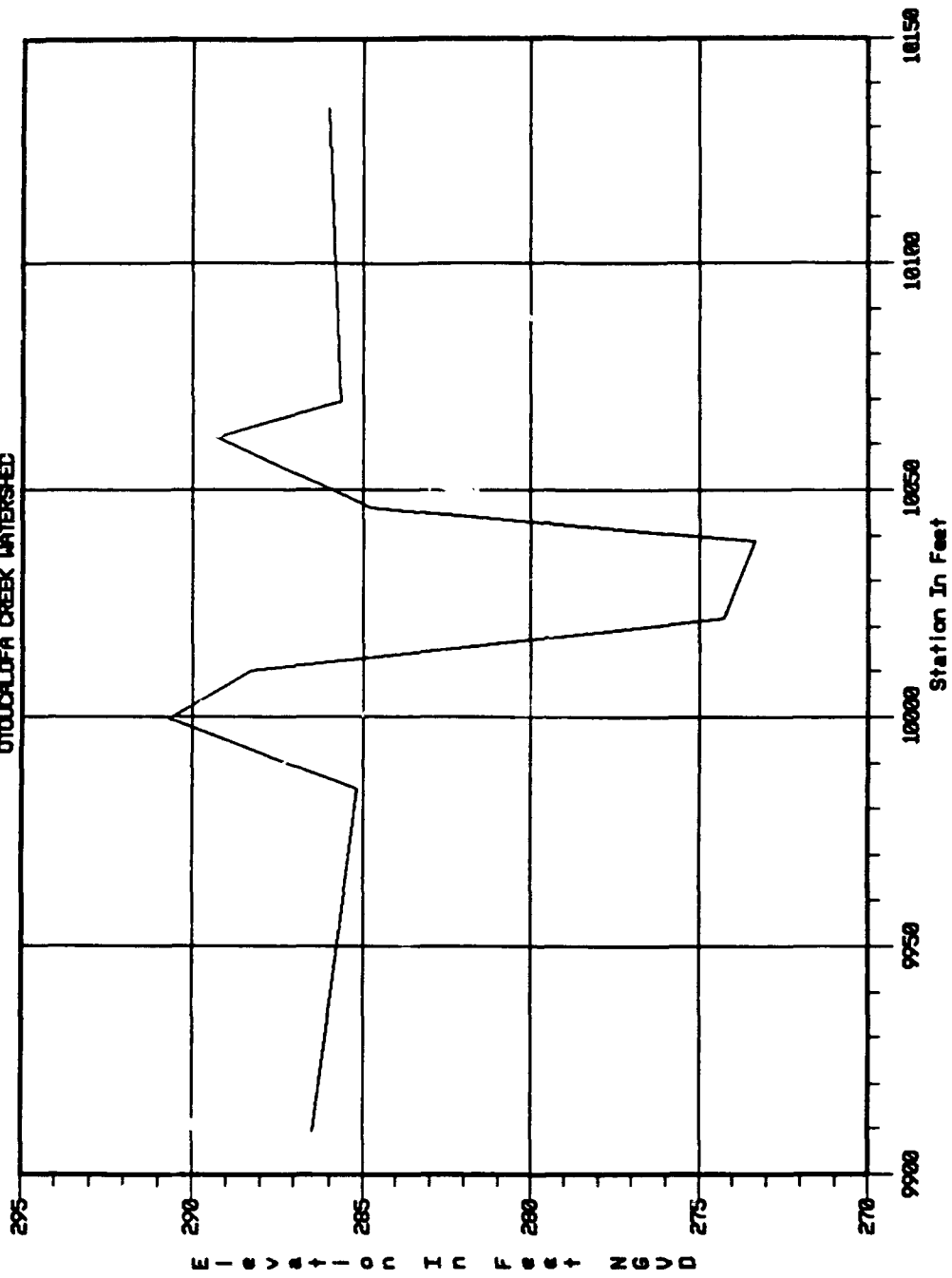


Plate C142

# OTOLUALOFA CREEK WATERSHED



TRIBUTARY 16A 1985 XSEC 910

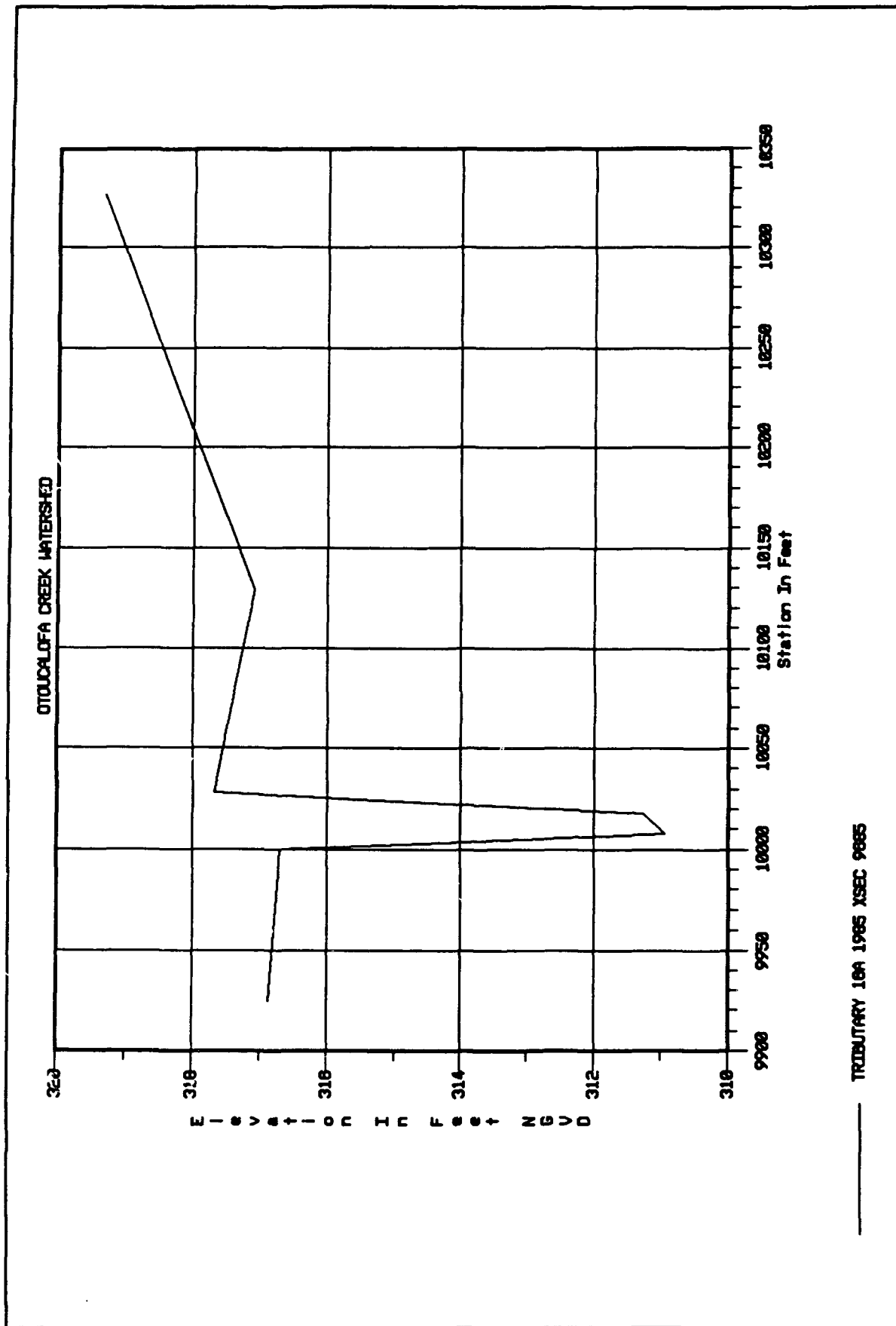
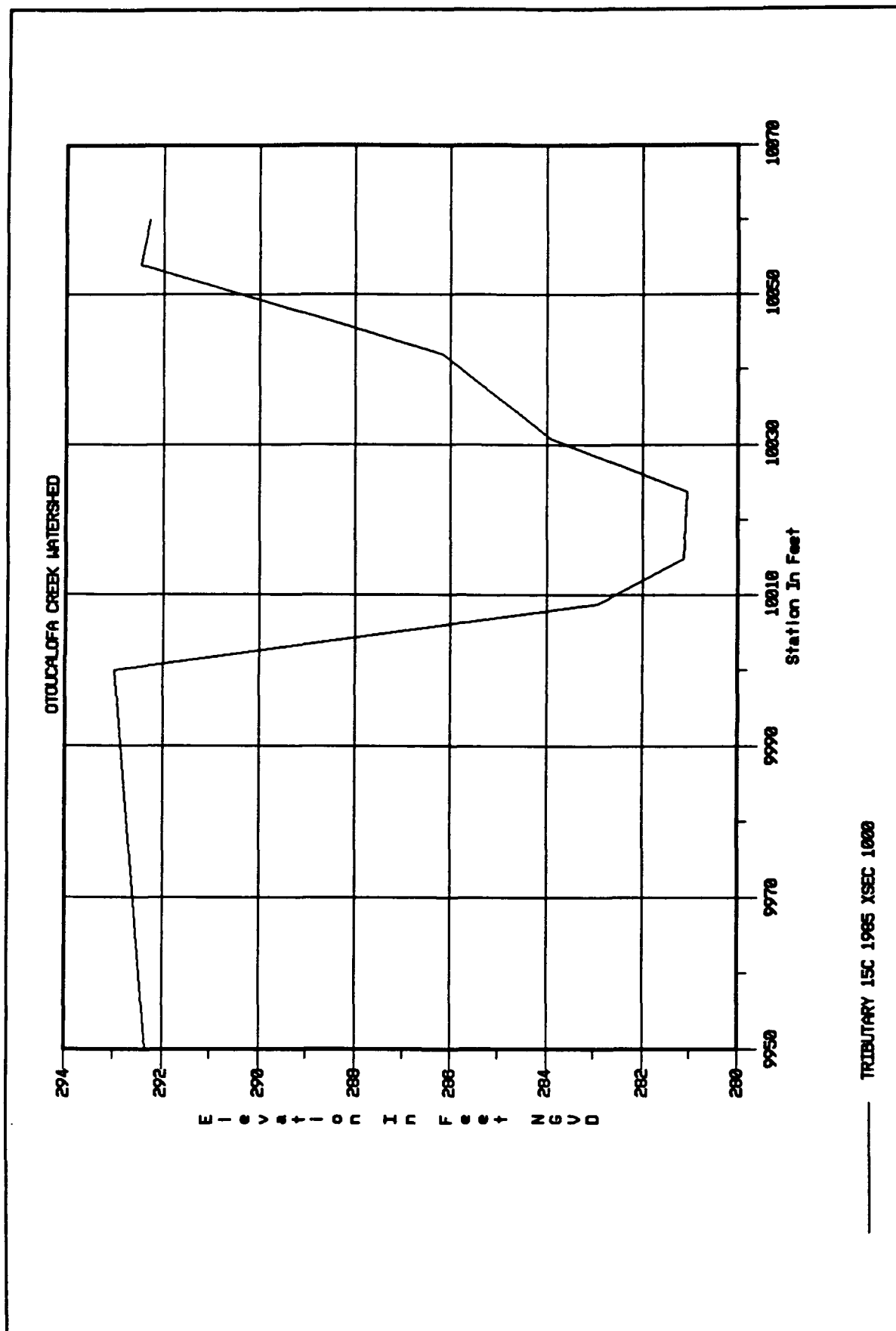


Plate C144





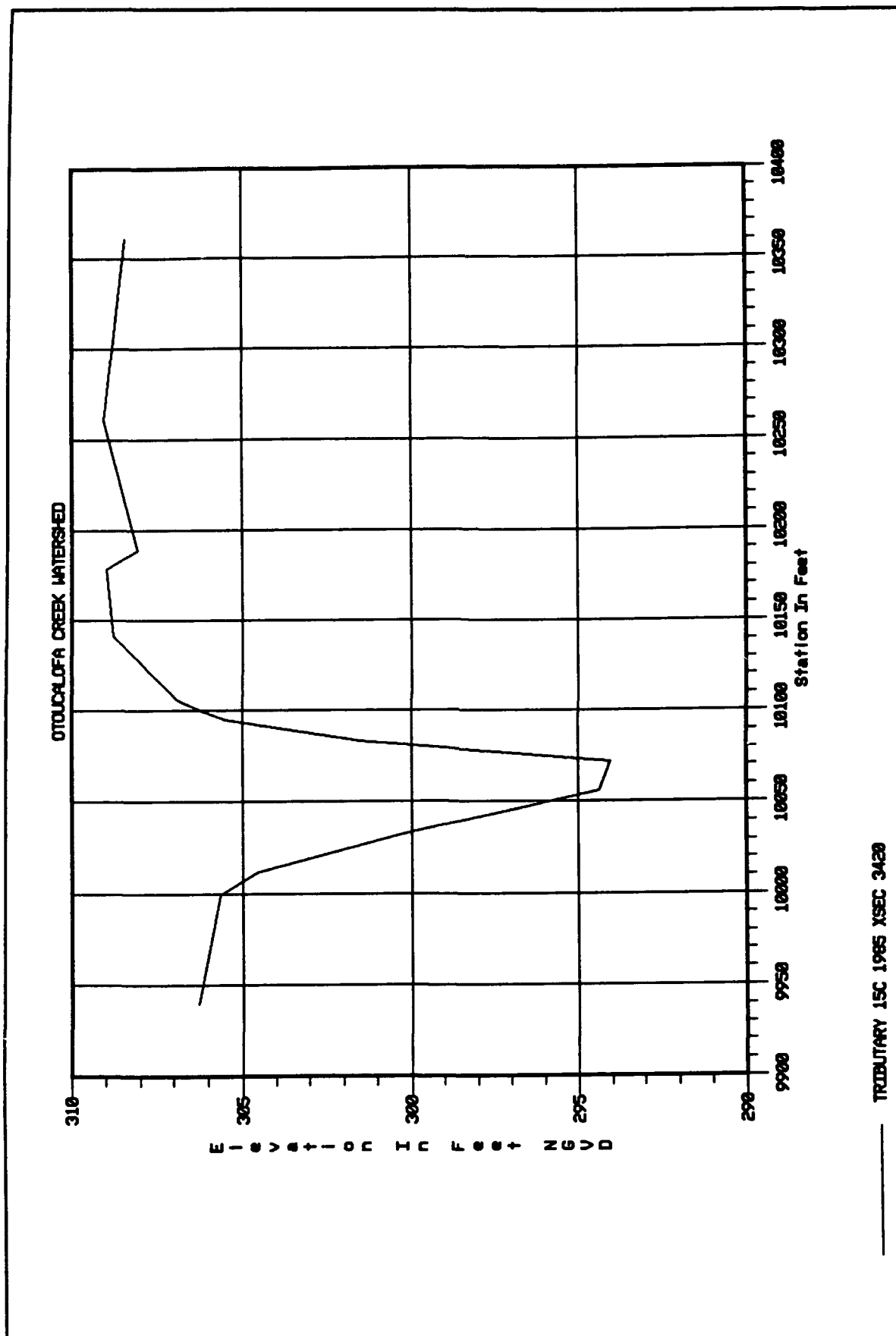
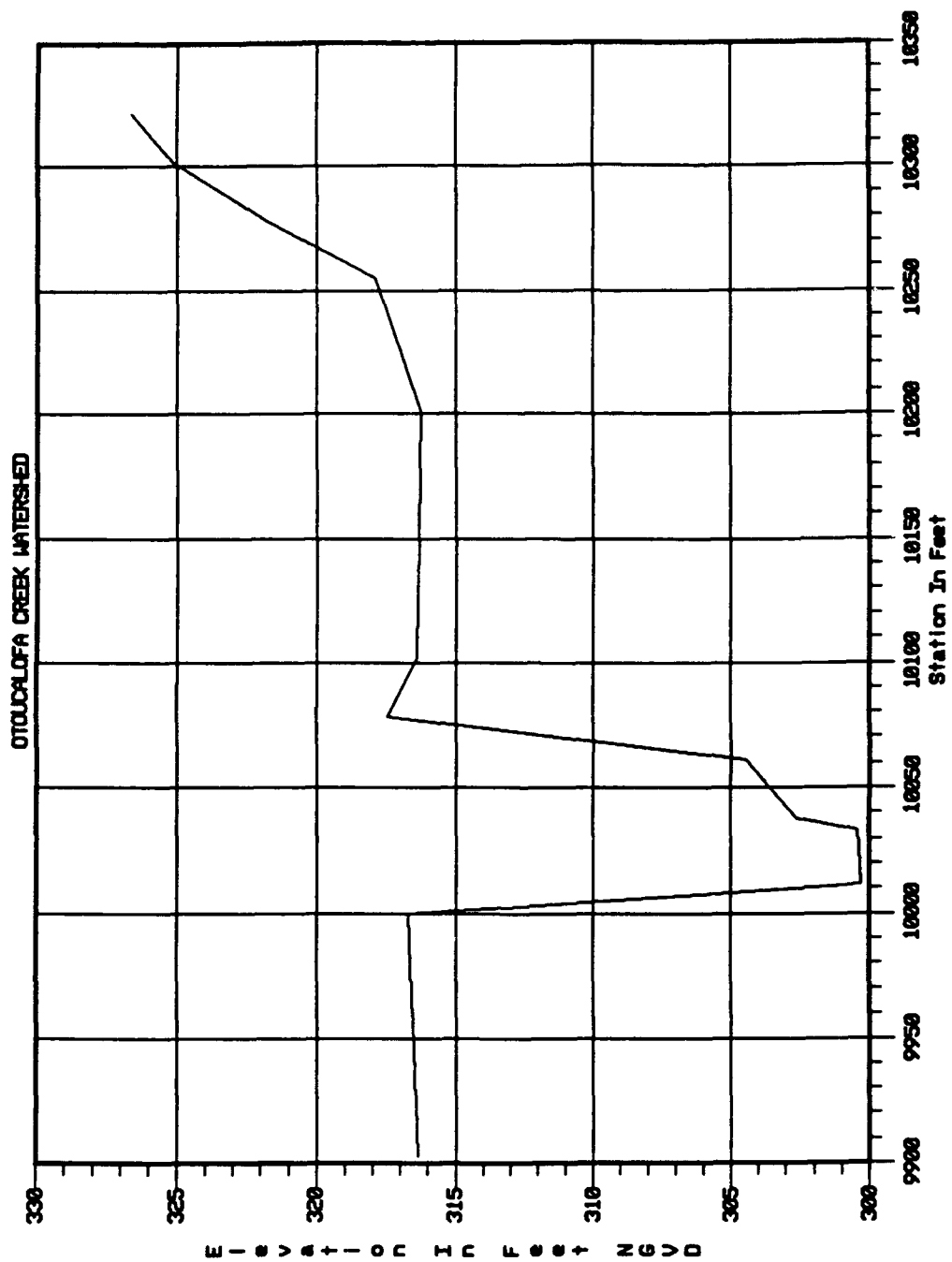


Plate C146



TRIBUTARY 15C 1985 XSEC 4900

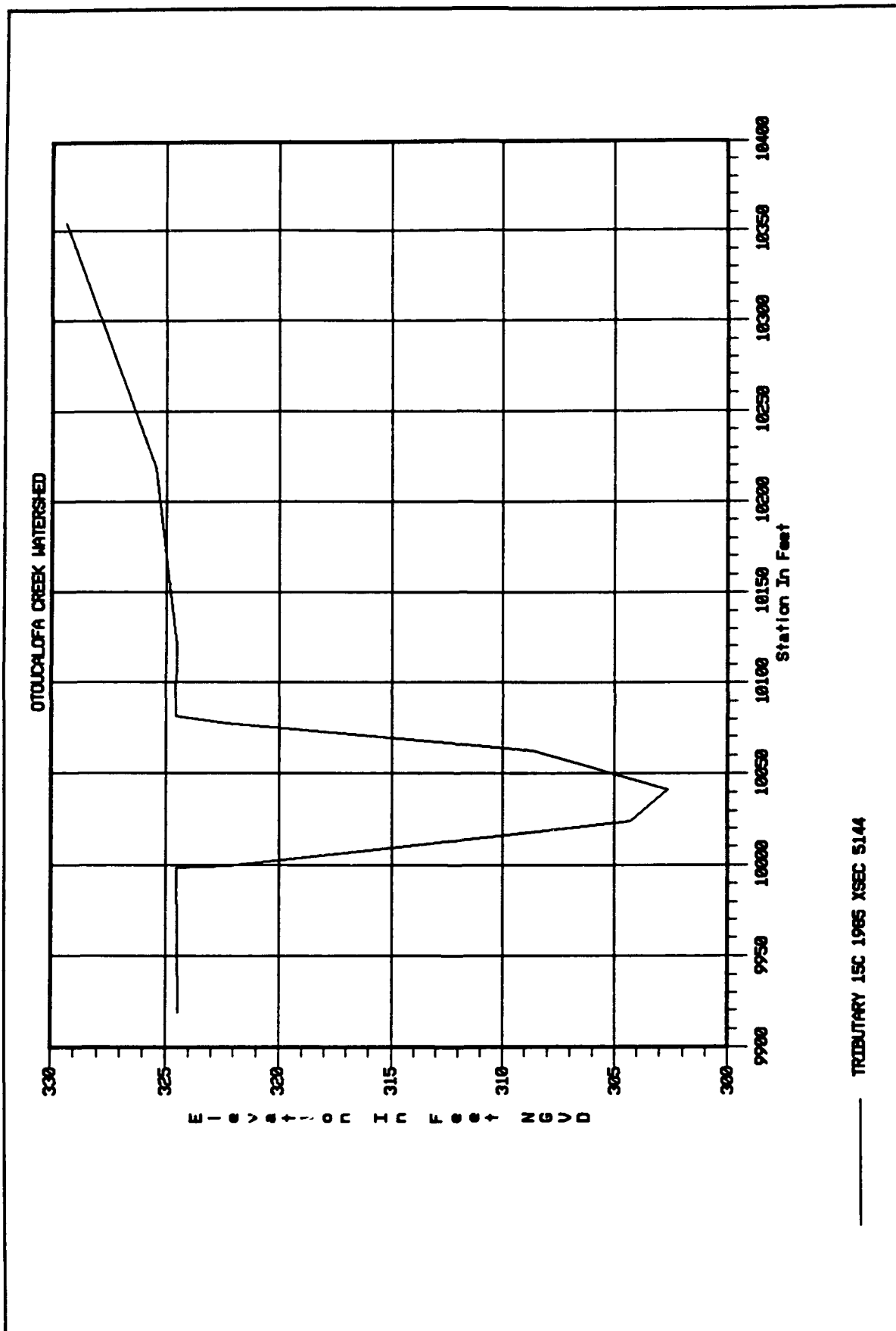
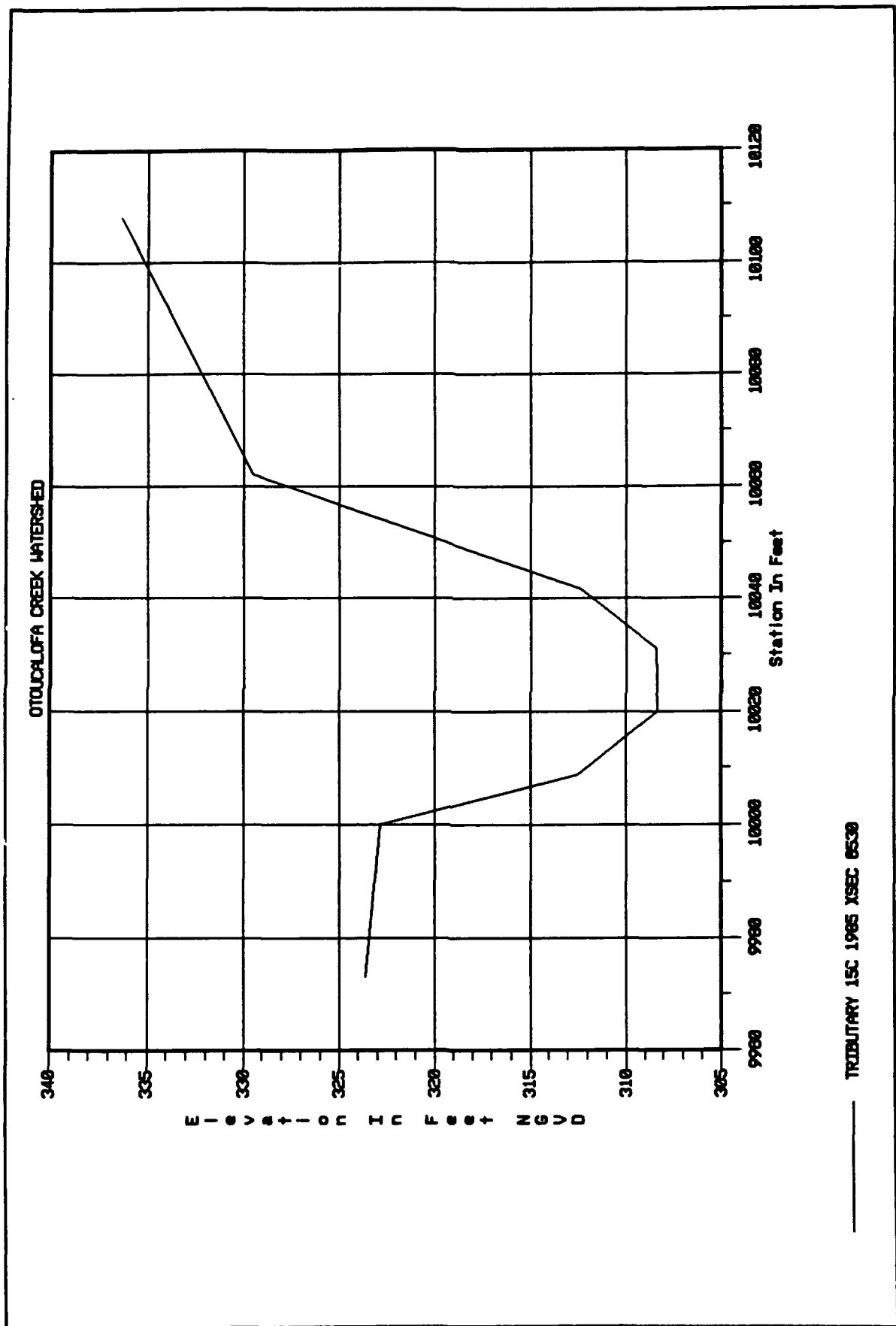


Plate C148



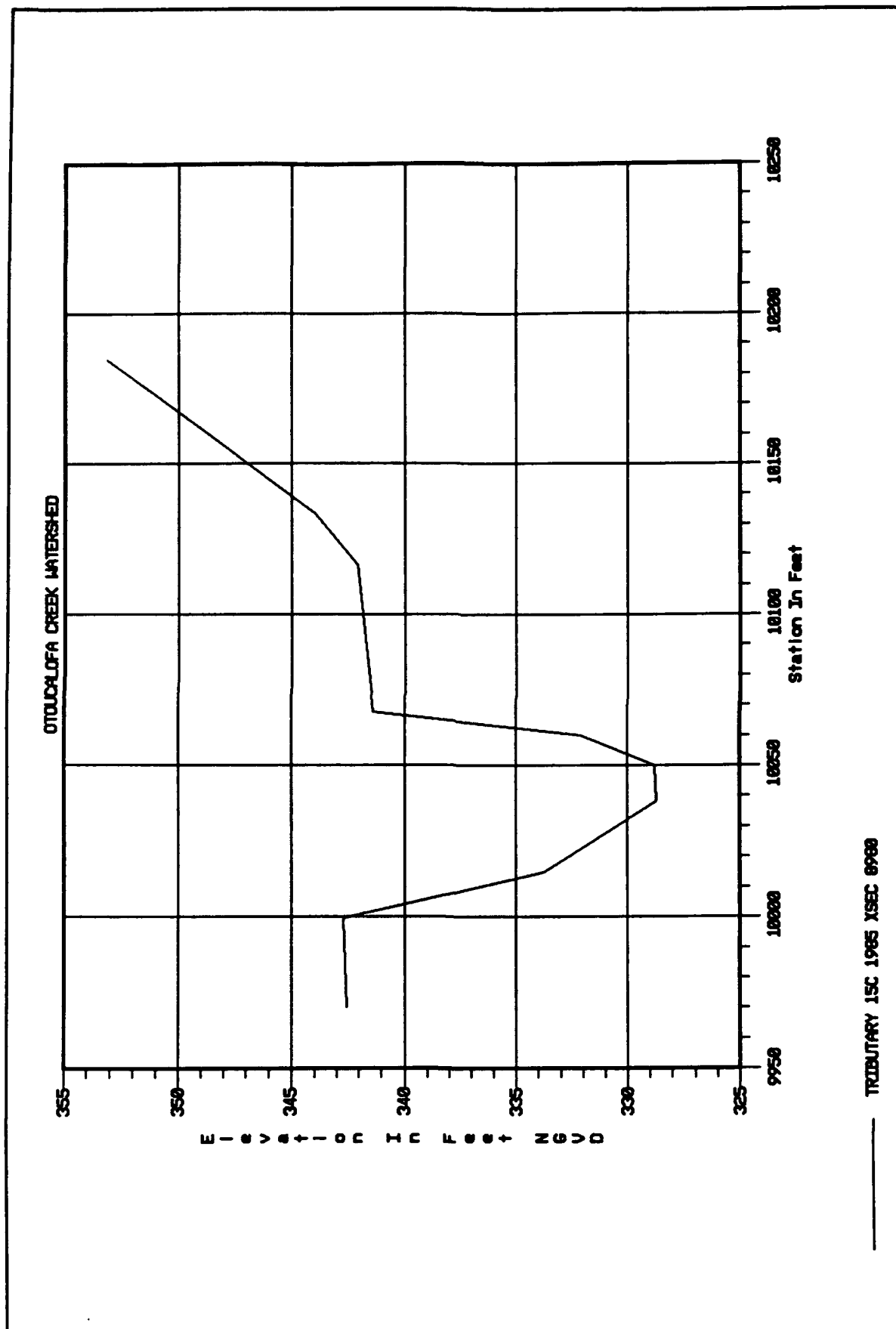
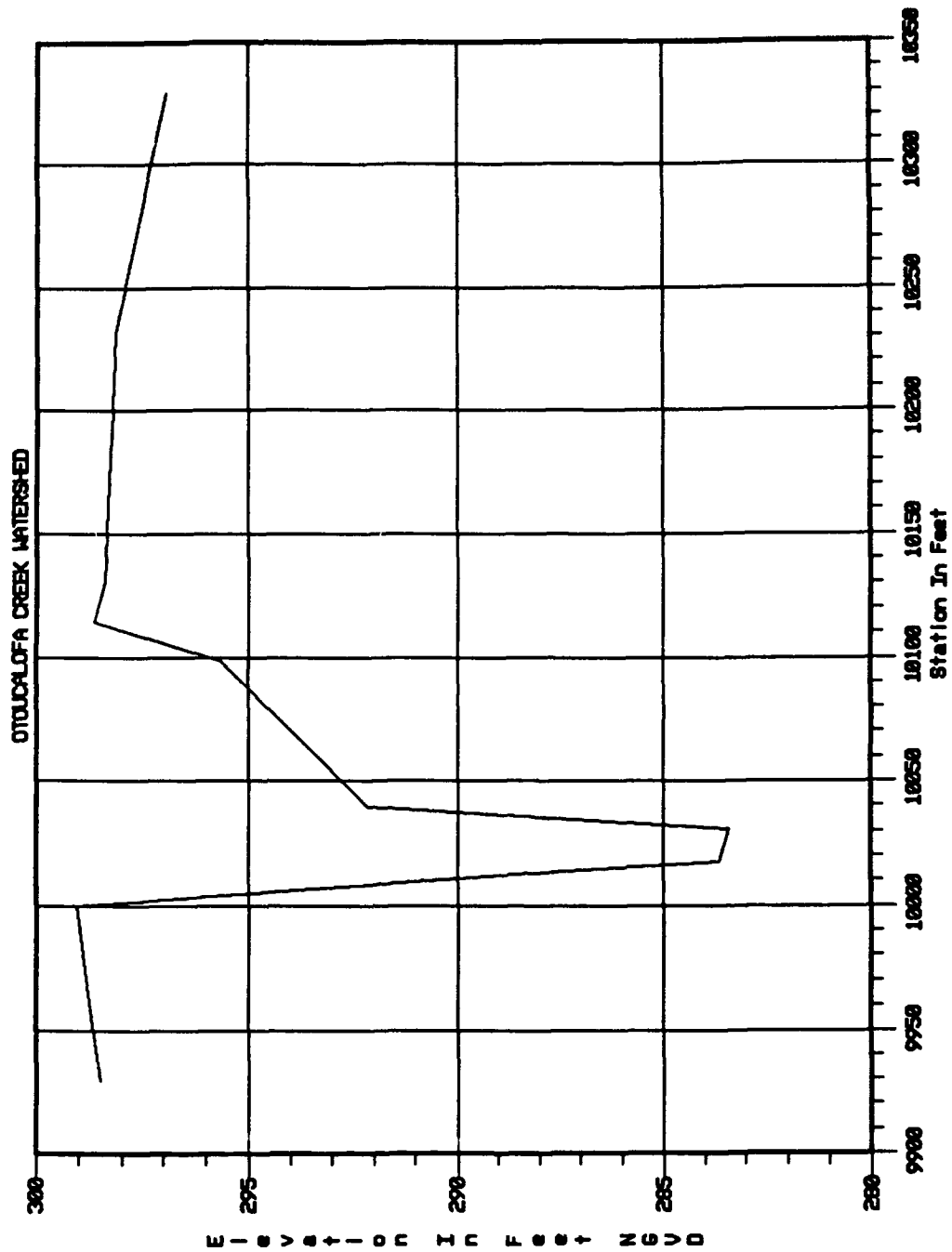


Plate C150



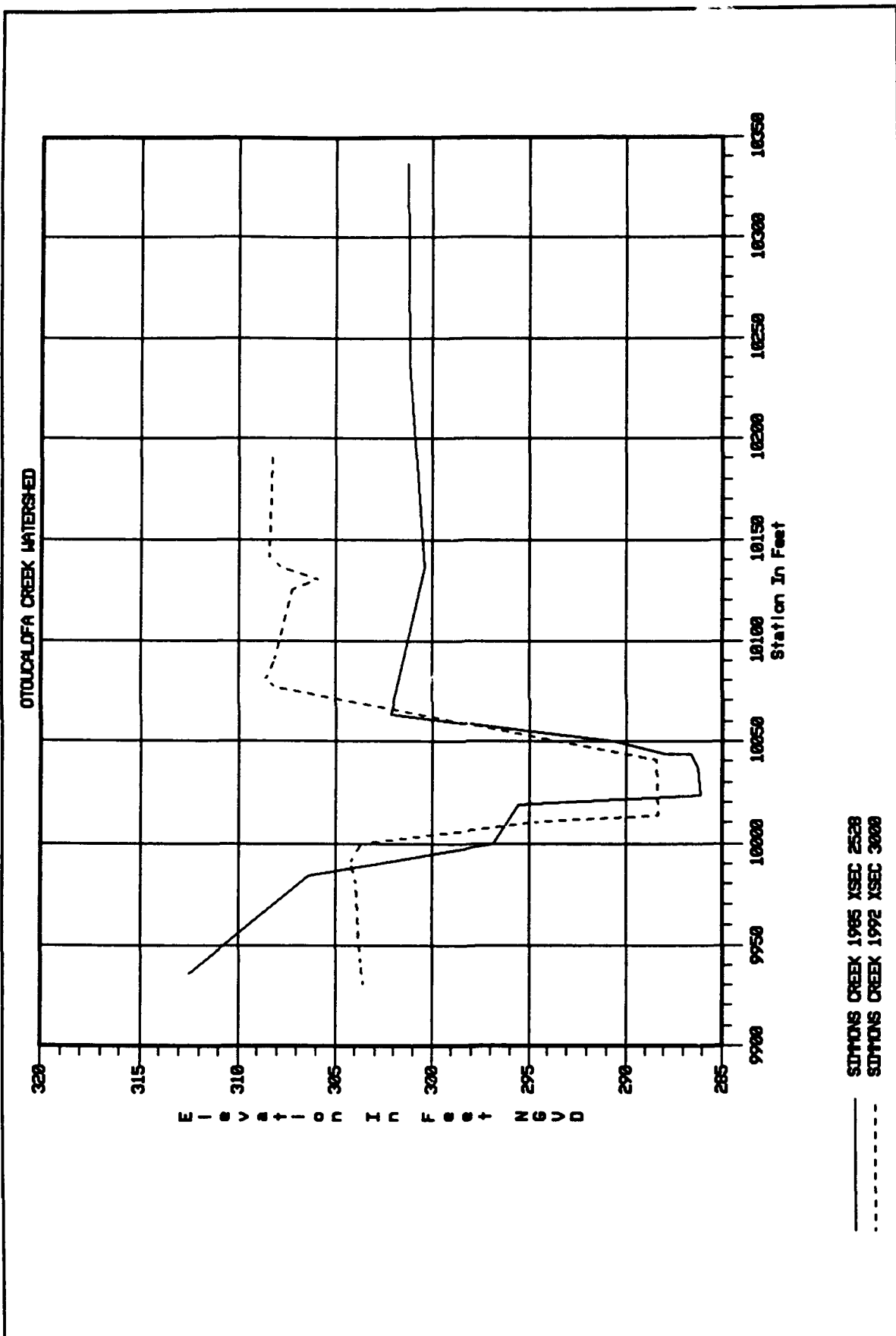
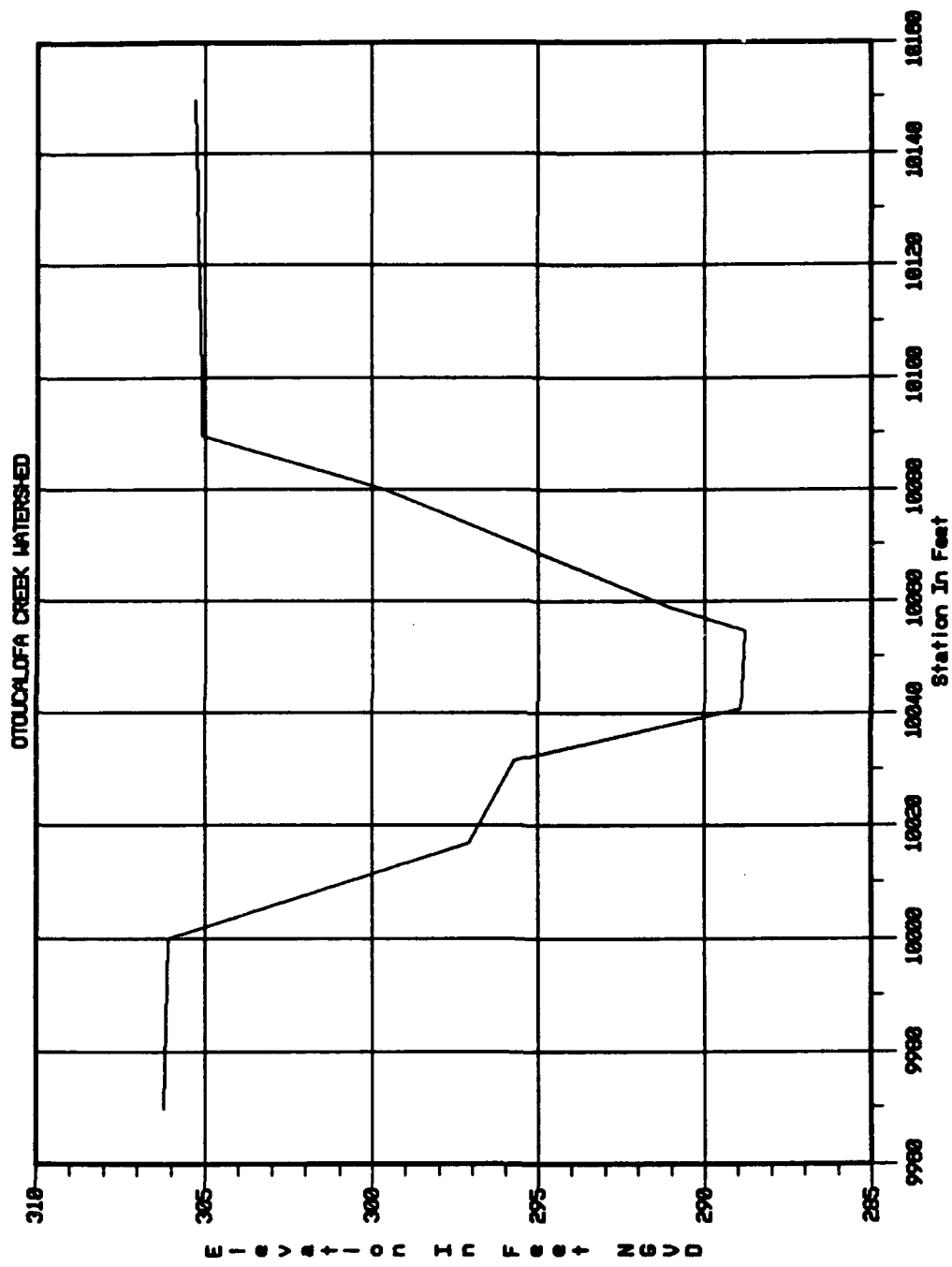


Plate C152



——— SUTTONS CREEK 1985 XSEC 3282



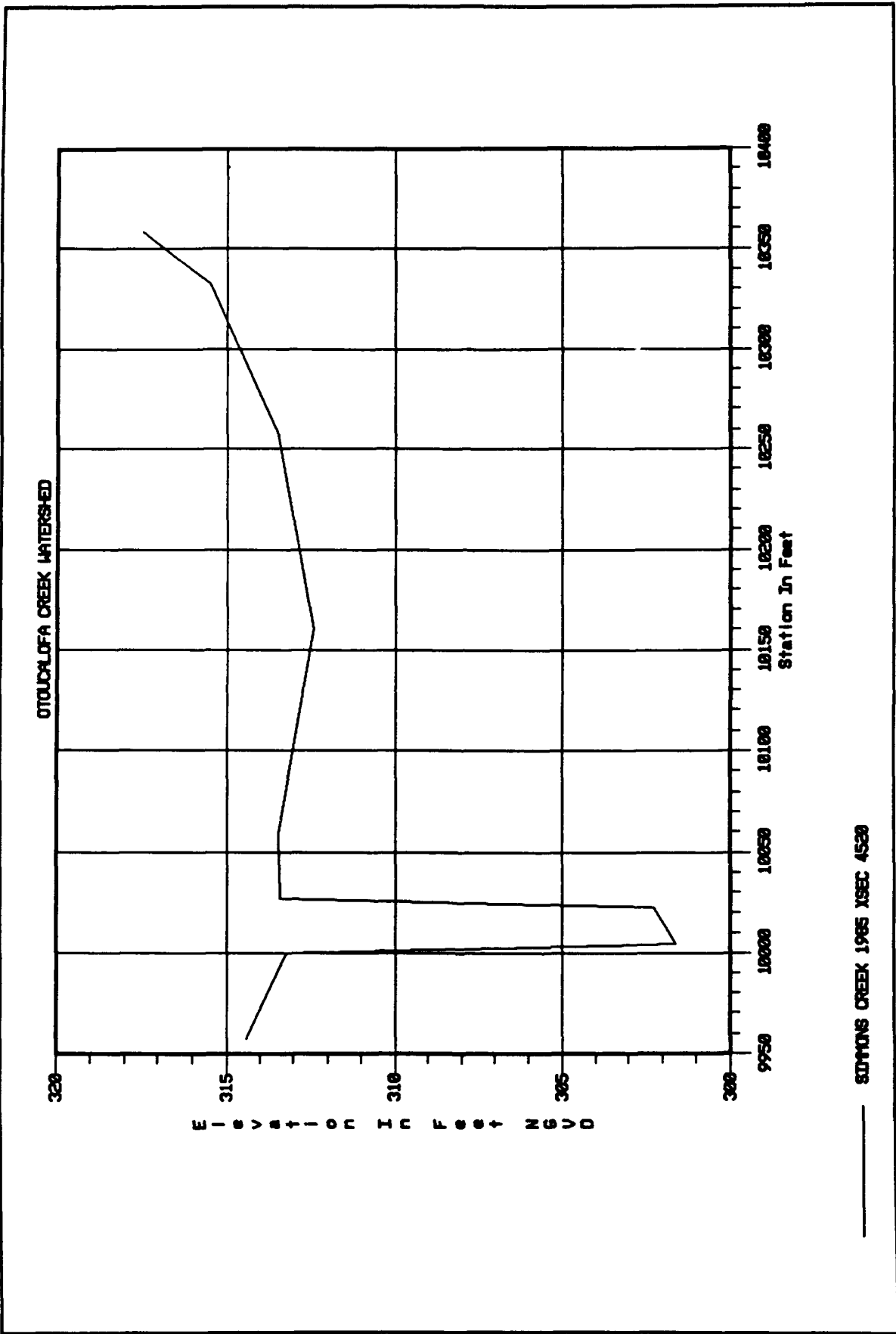
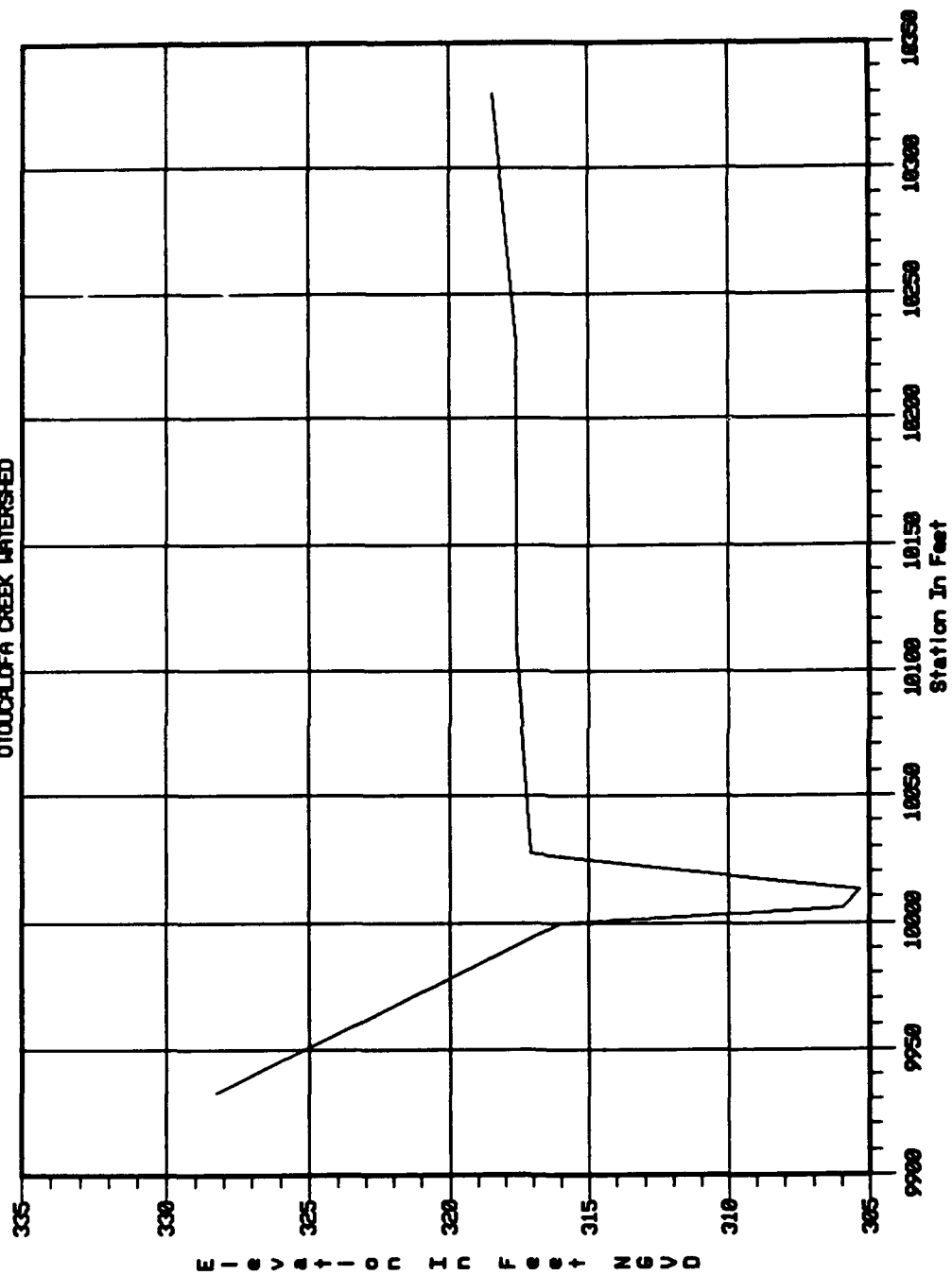


Plate C154

# OTOLUOLA CREEK WATERSHED



OTULOLA CREEK 1985 XSET: 5120

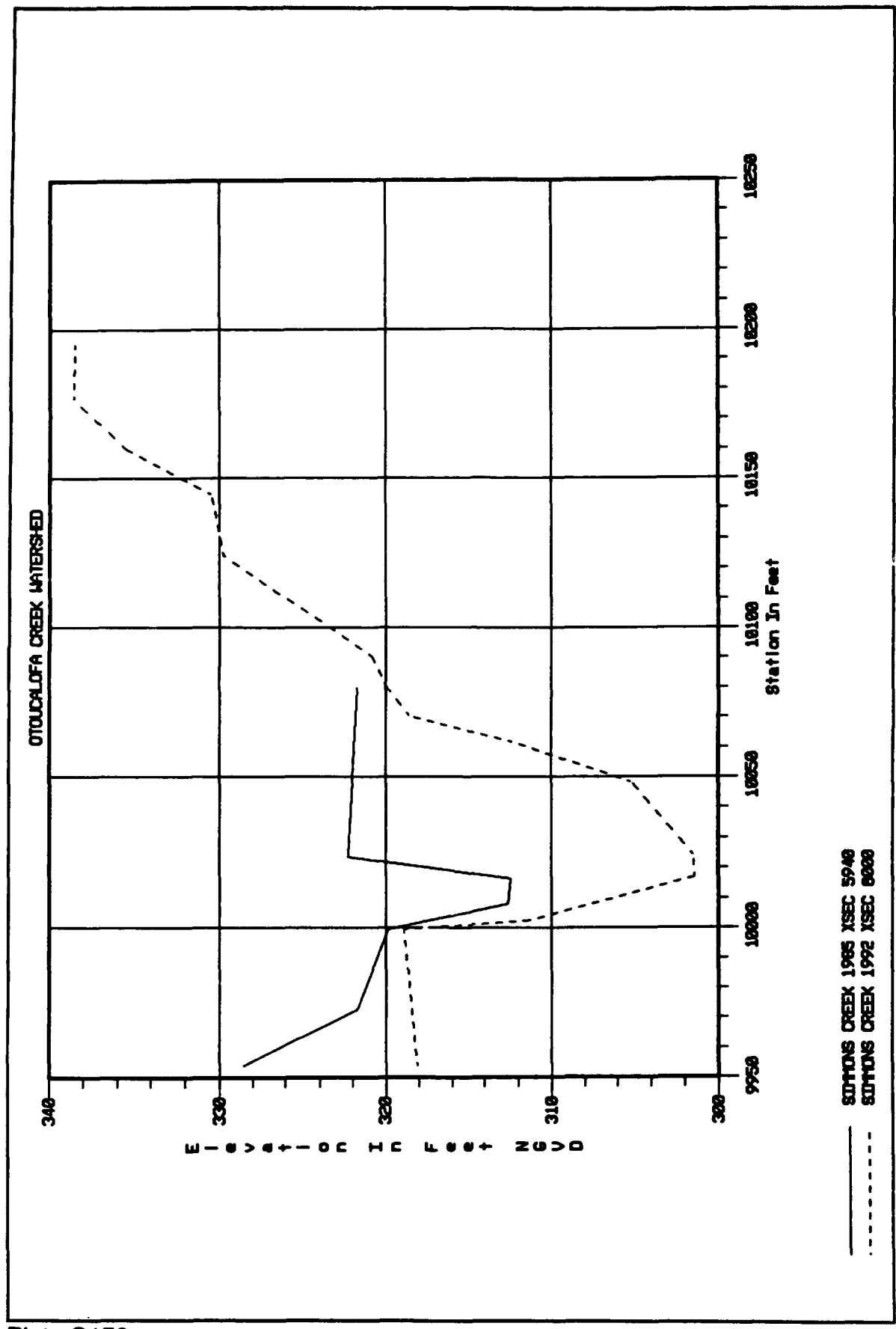
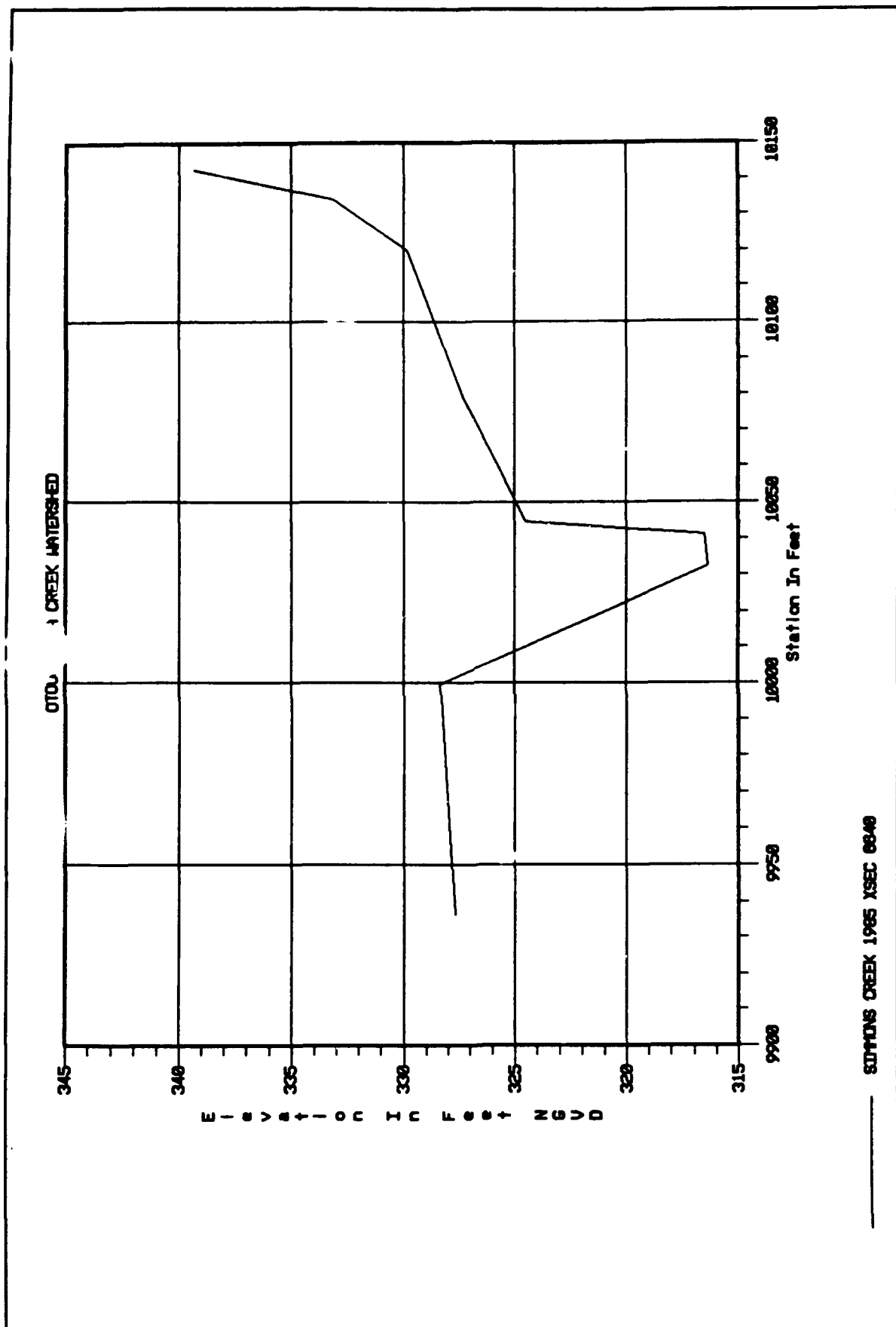


Plate C156



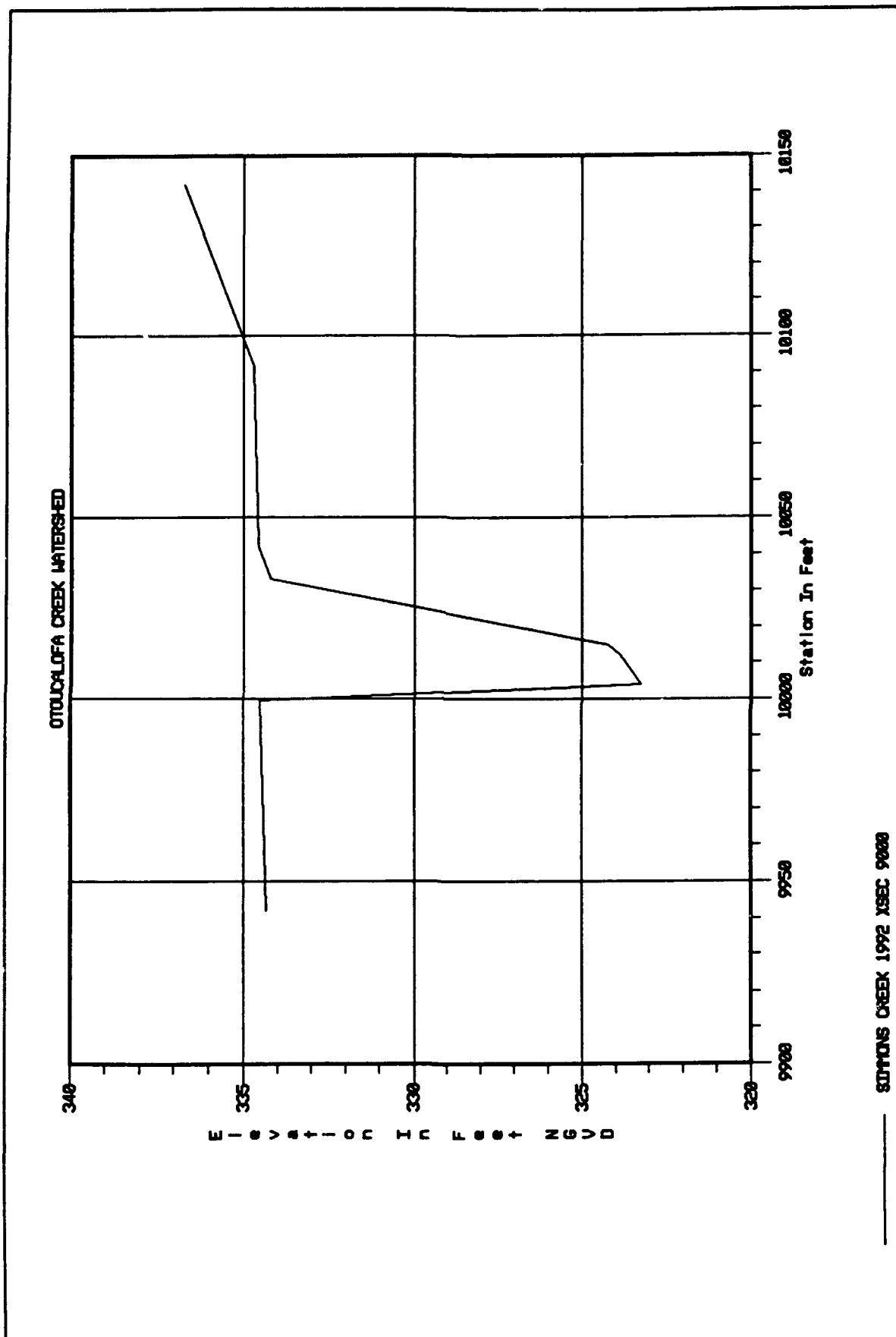
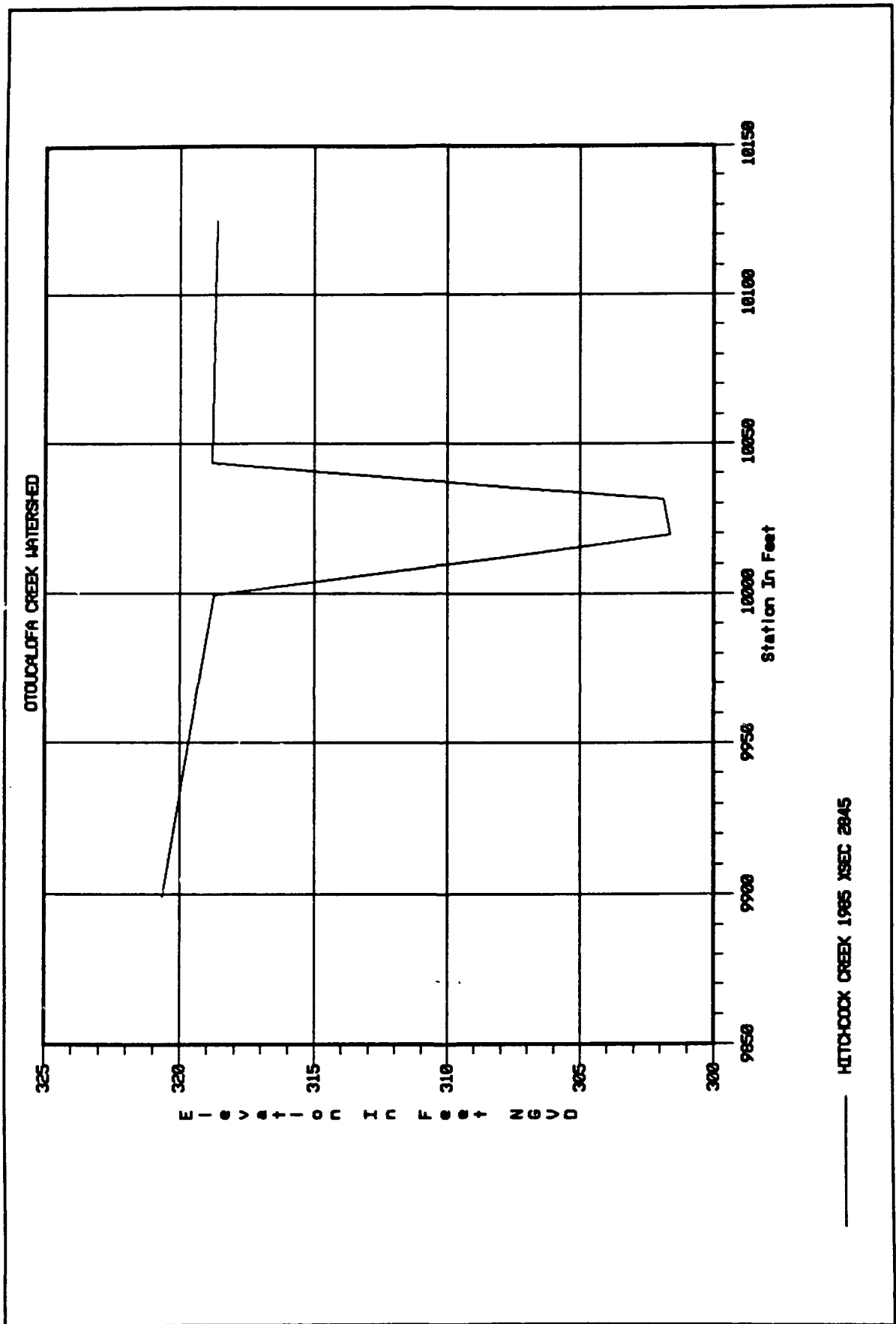


Plate C158



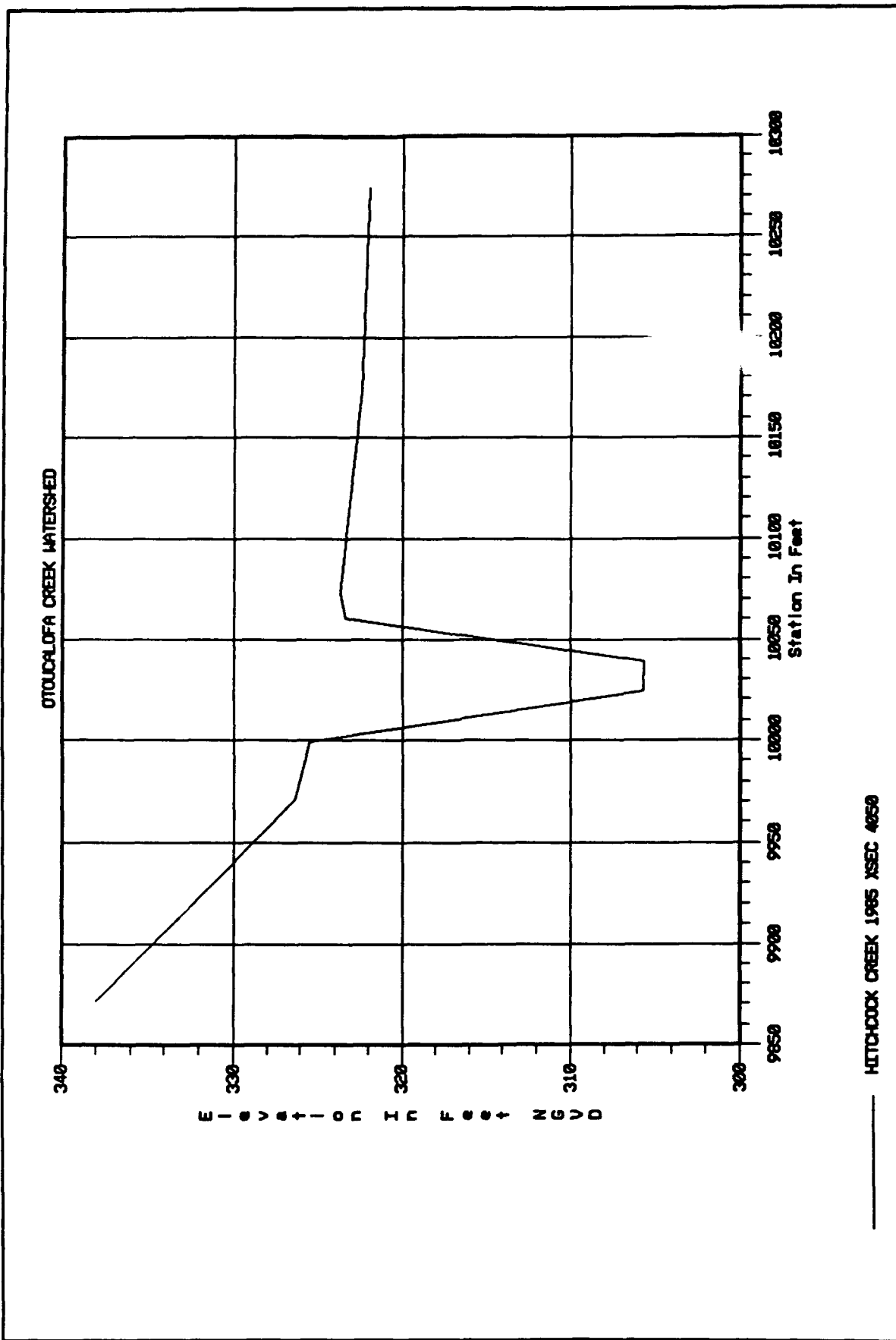
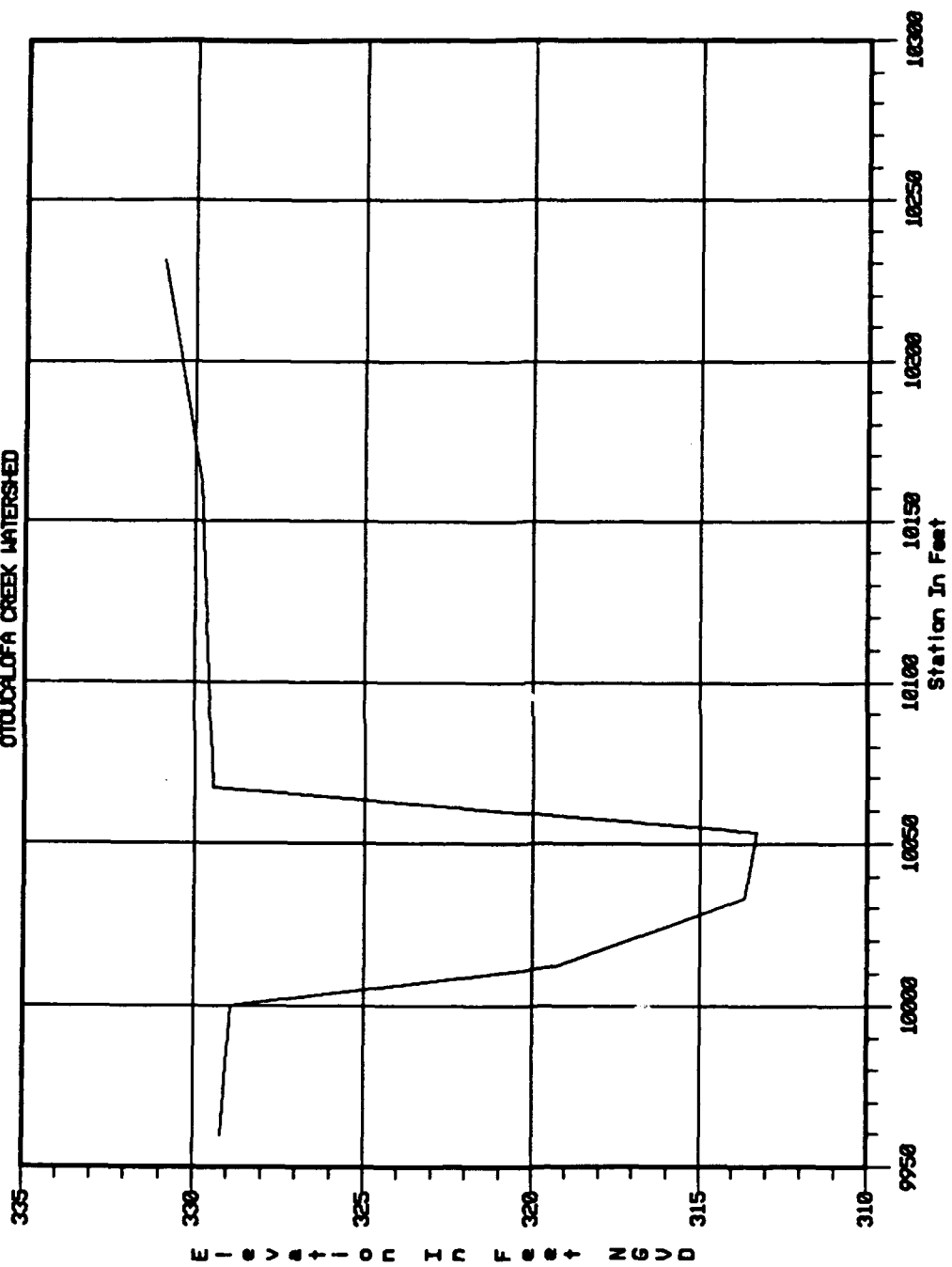


Plate C160

# OTUOLLOFA CREEK WATERSHED



— HITCHCOCK CREEK 1985 XSEC 5135



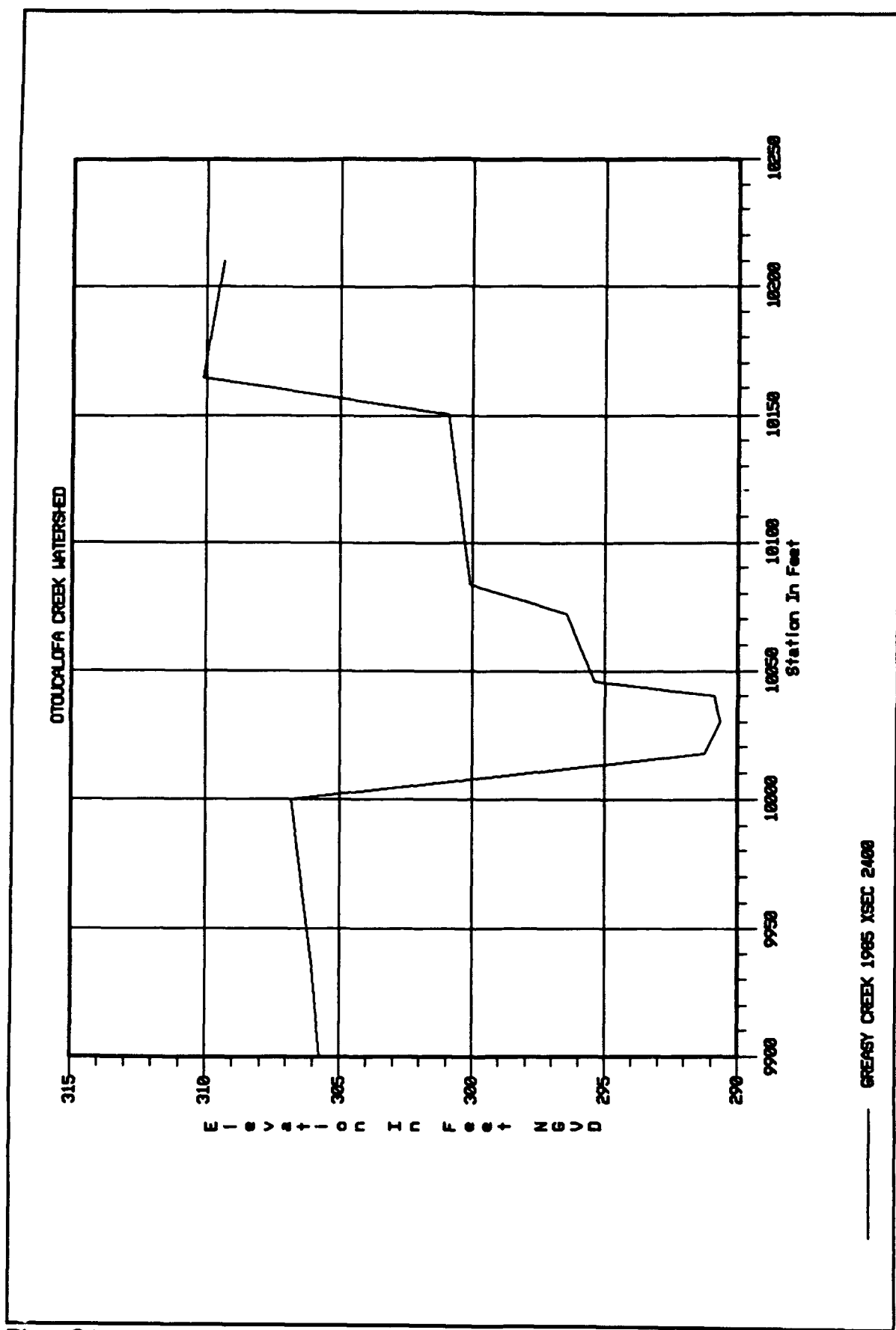
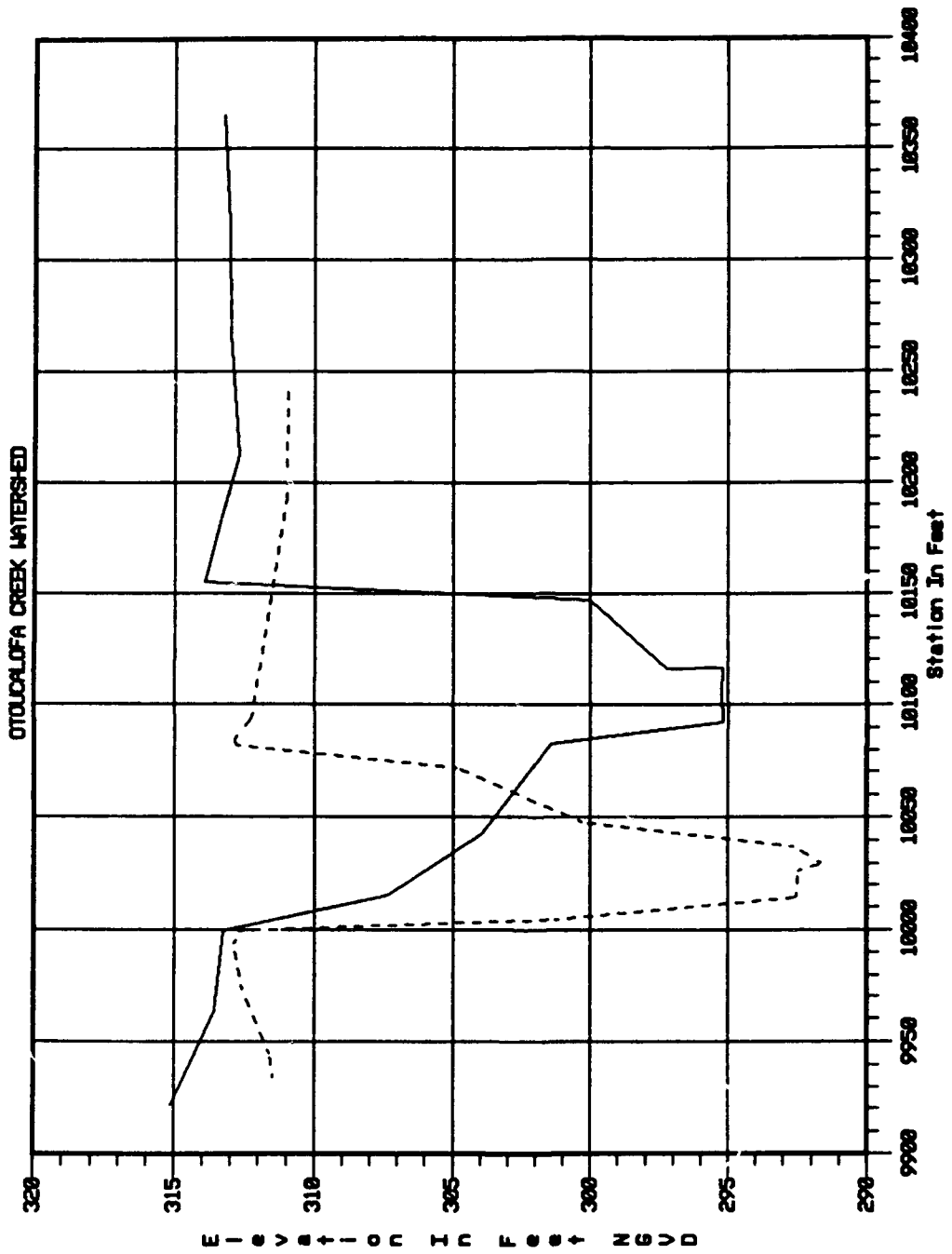


Plate C162



— GREASY CREEK 1985 XSEC 3800  
 - - - GREASY CREEK 1992 XSEC 3800

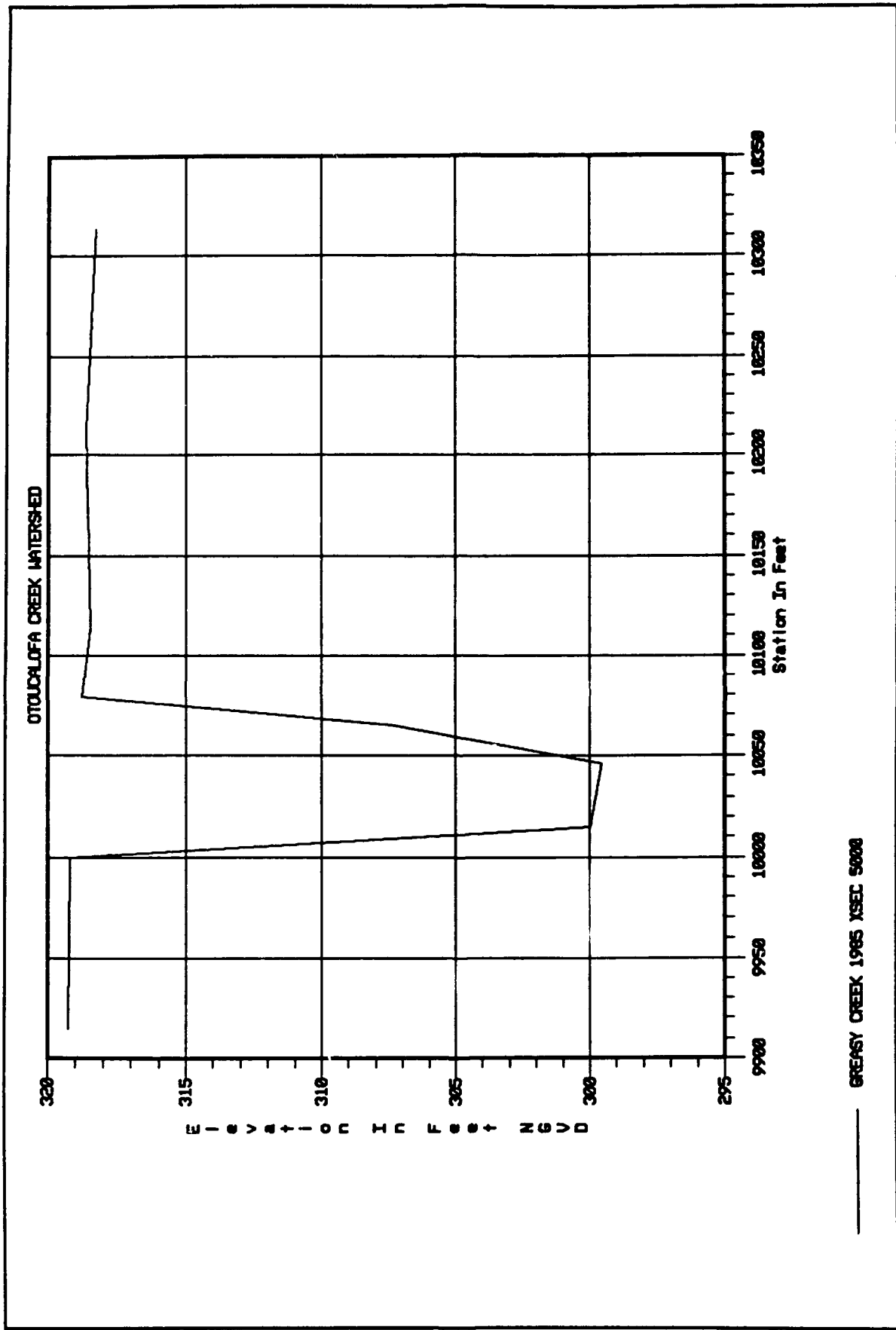
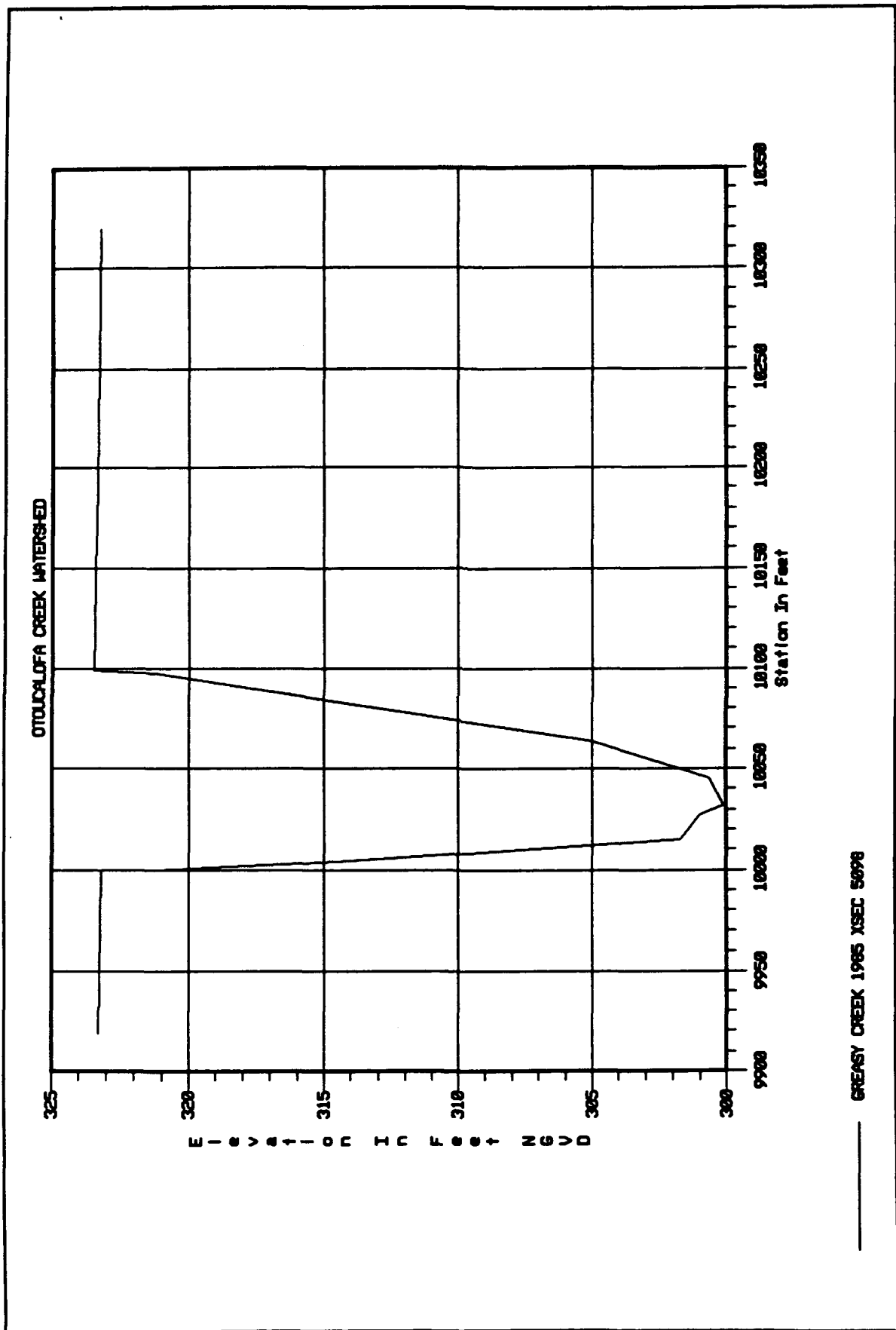


Plate C164



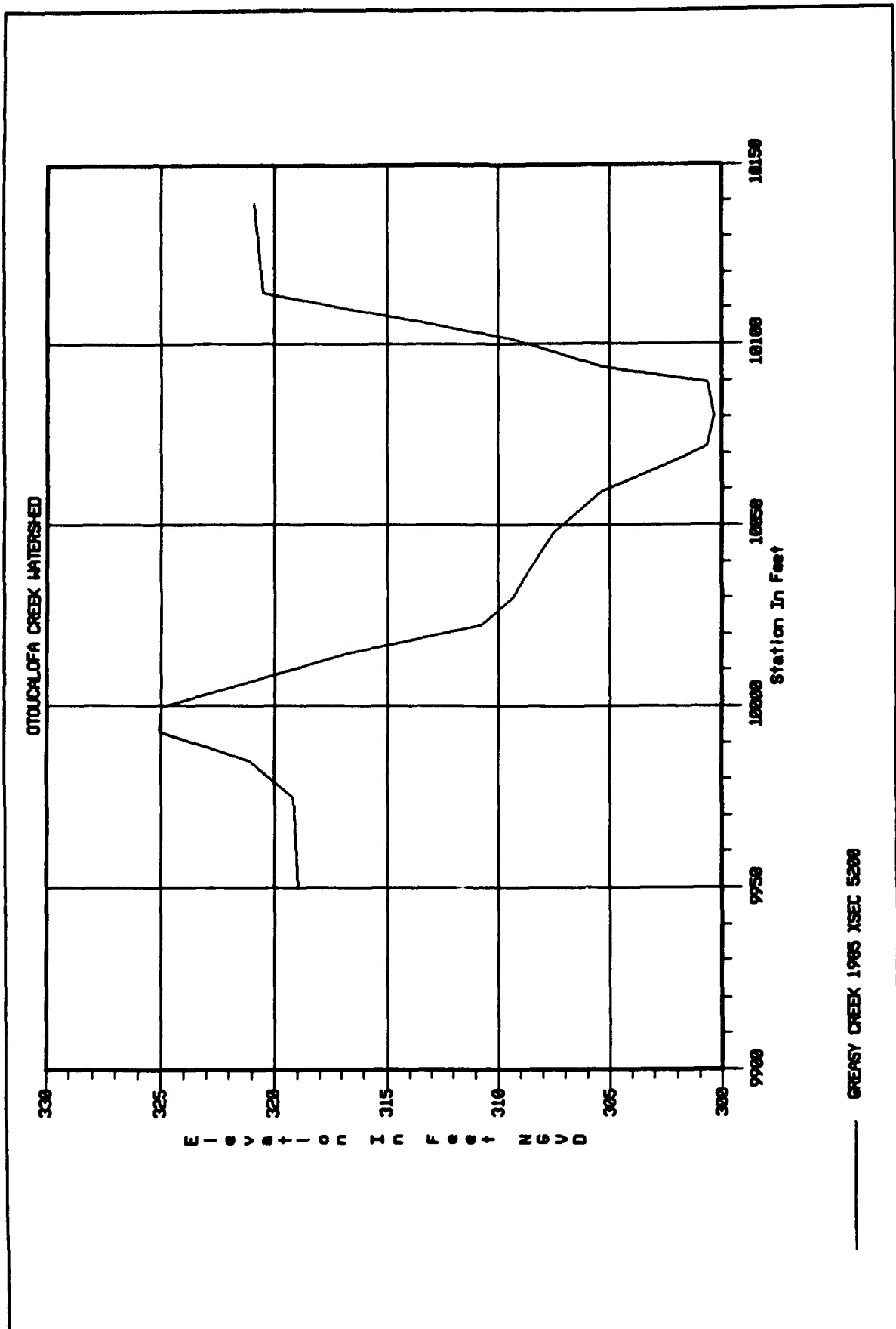
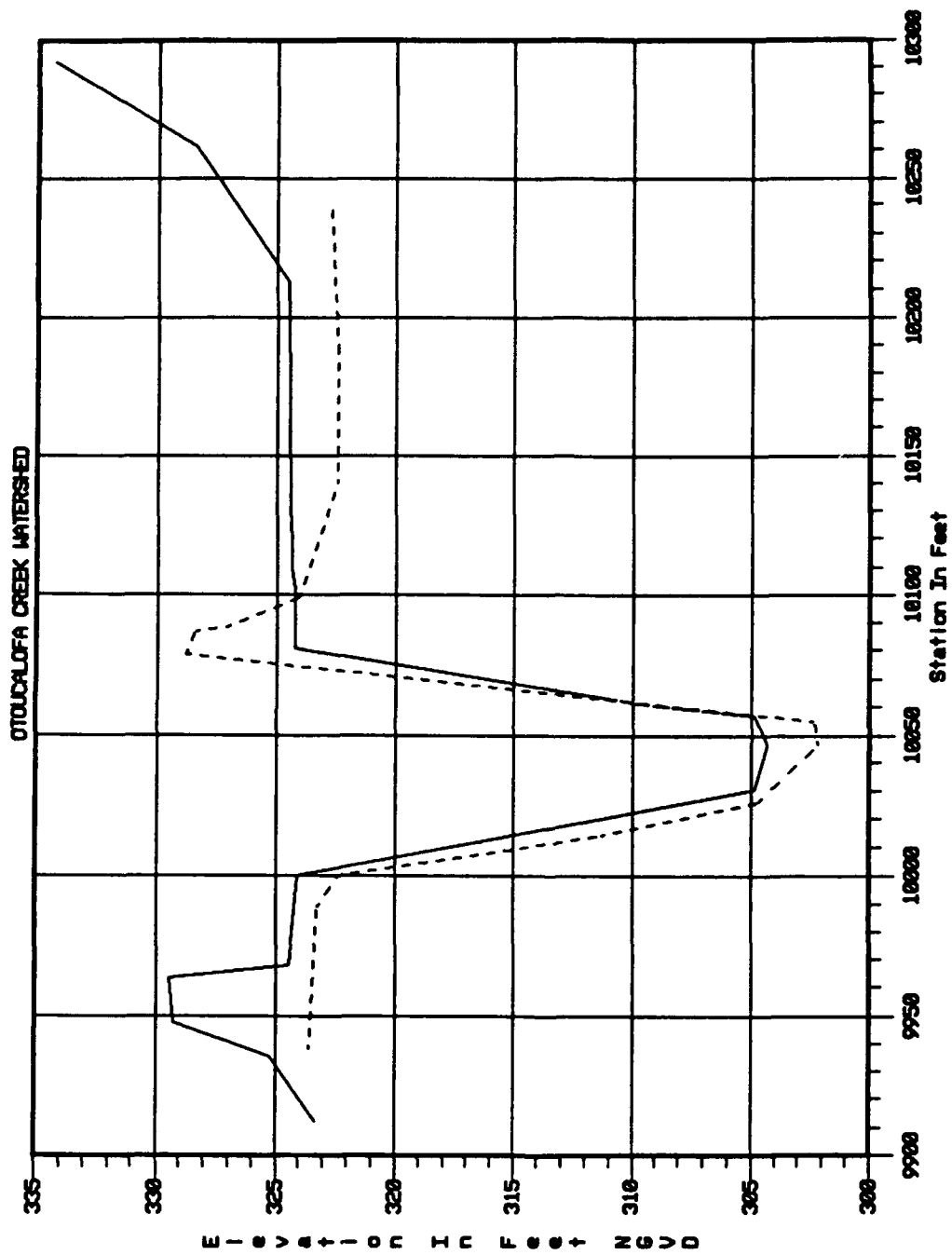


Plate C166



GREASY CREEK 1985 XSEC 0500  
GREASY CREEK 1992 XSEC 0000

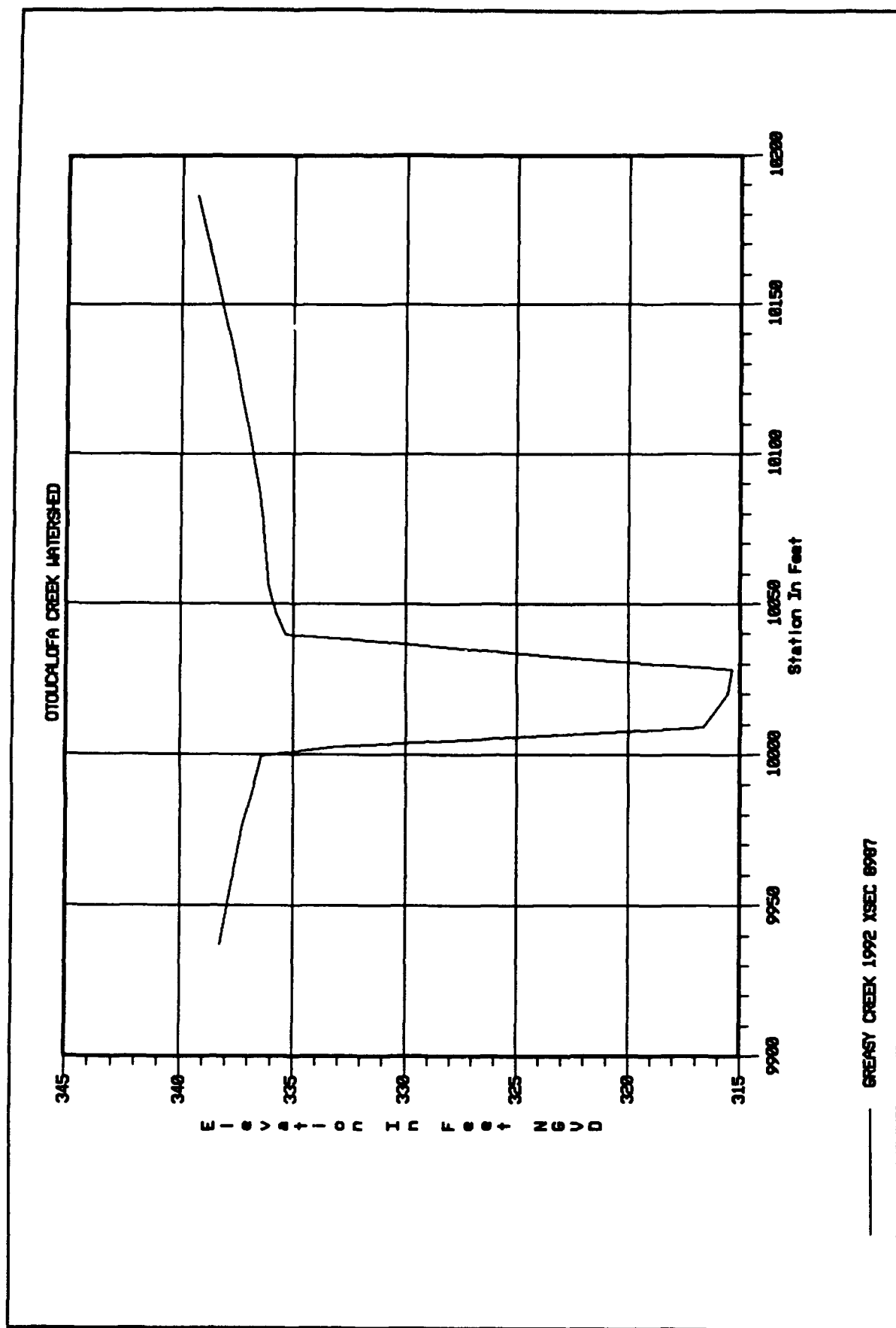
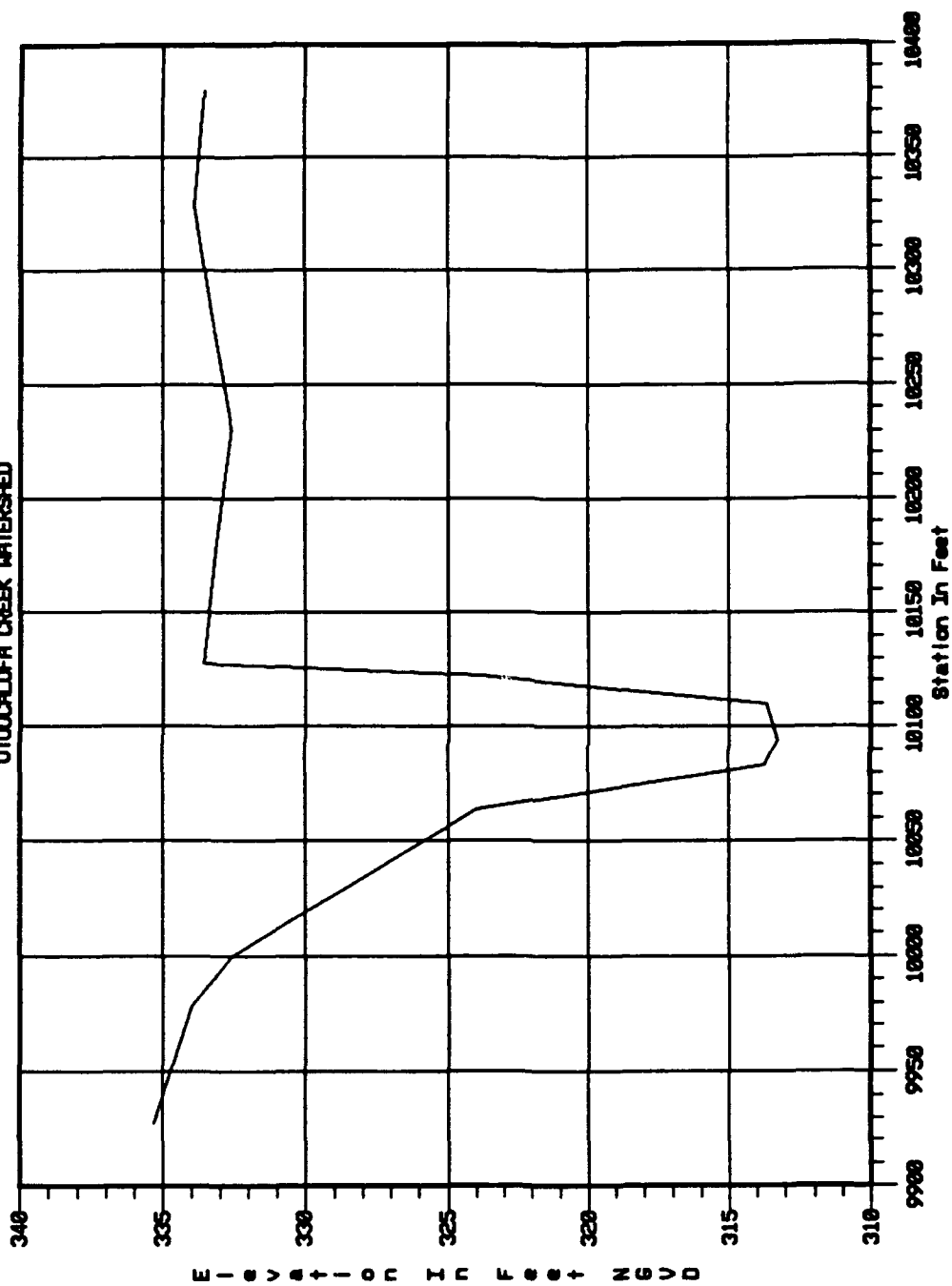


Plate C168

# OTOJUALOFA CREEK WATERSHED



GREASY CREEK 1985 XSEC 9108



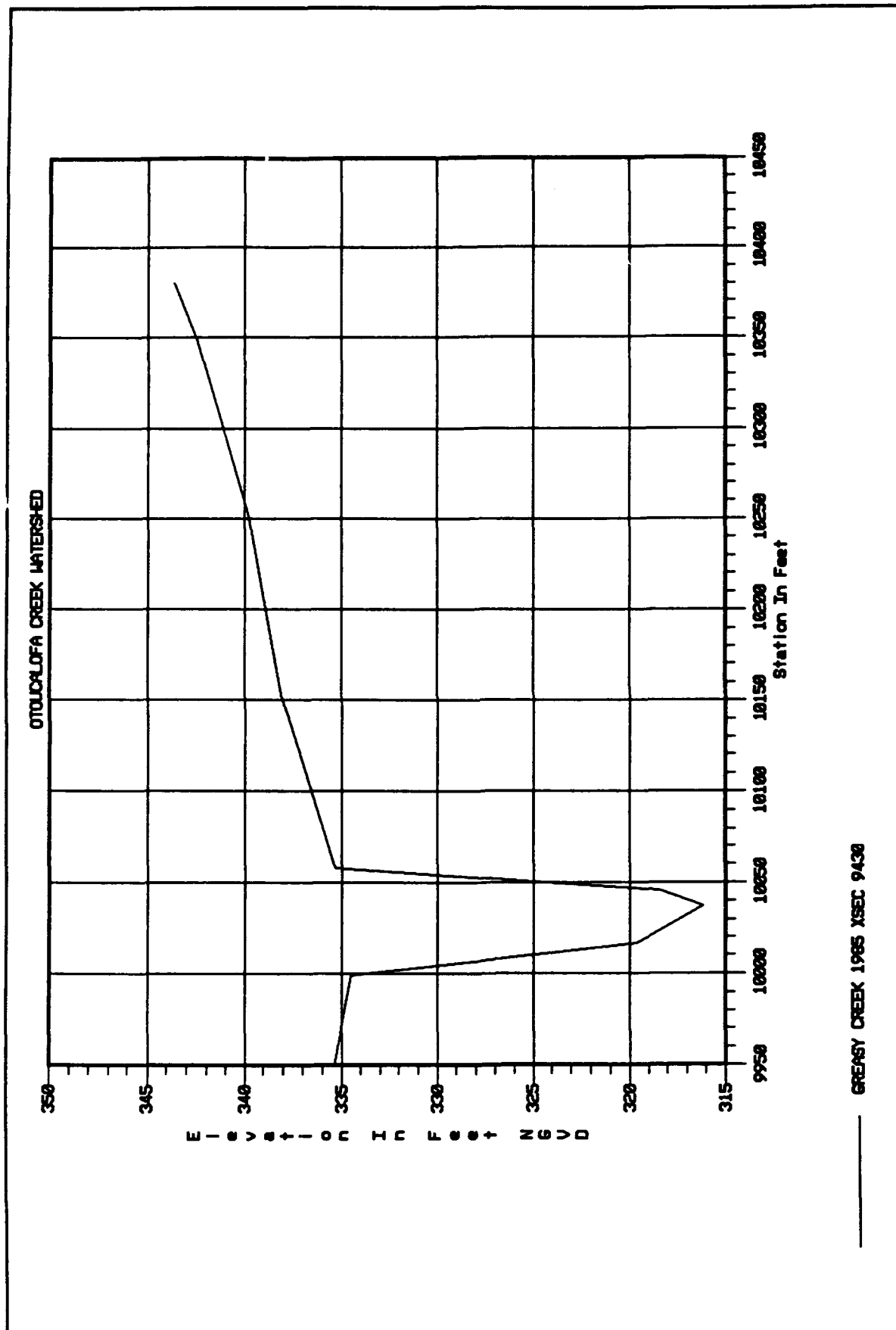
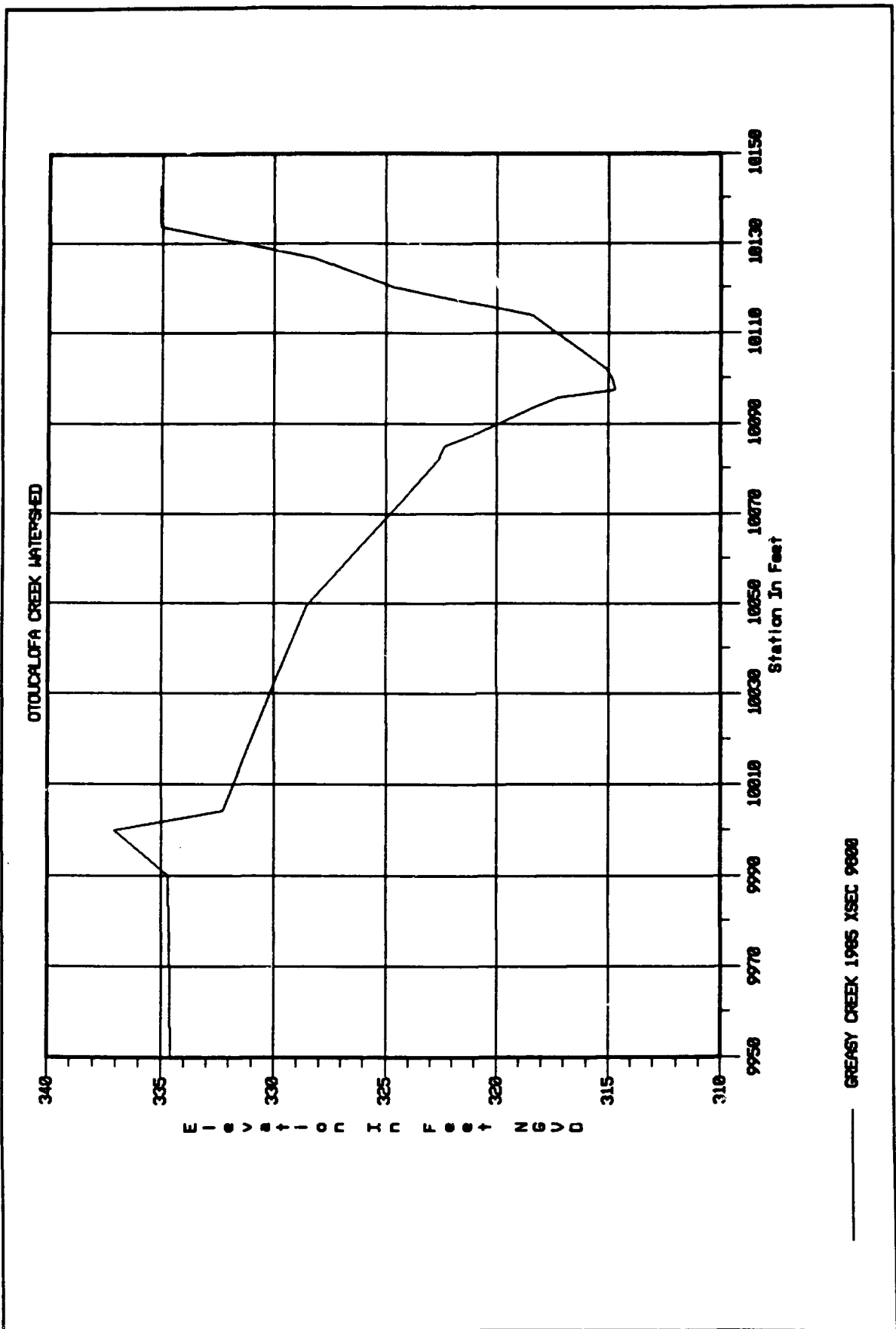


Plate C170



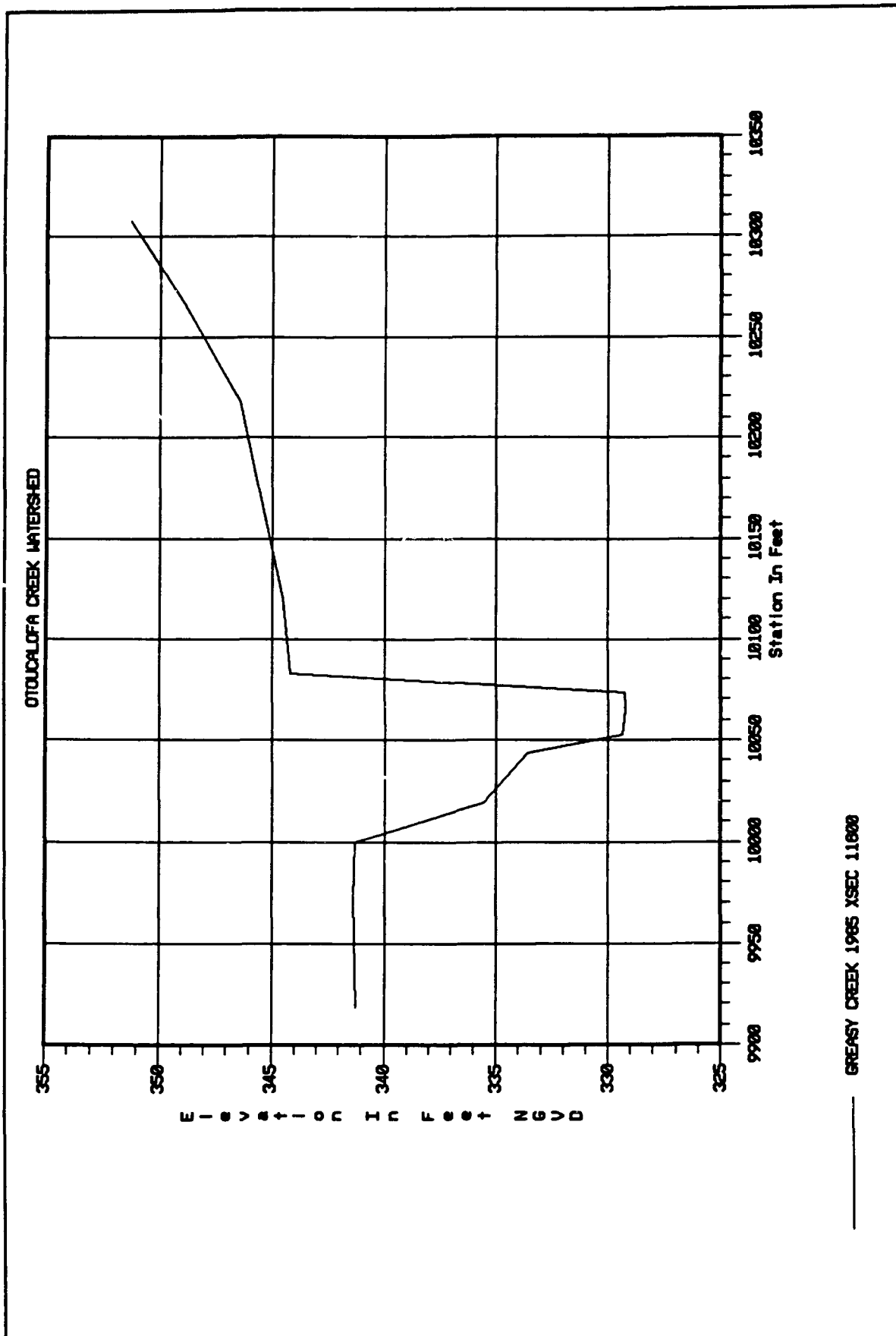
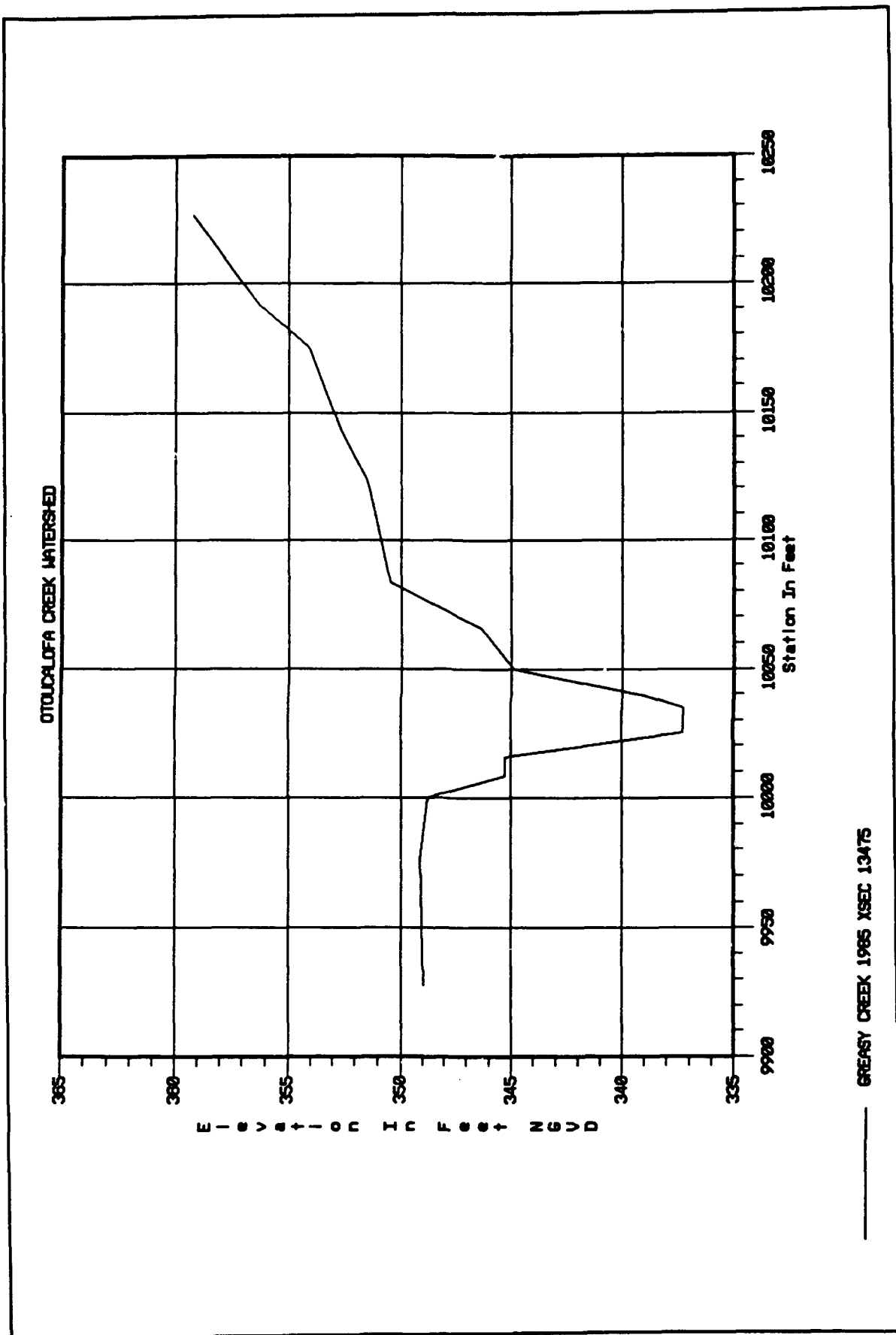


Plate C172



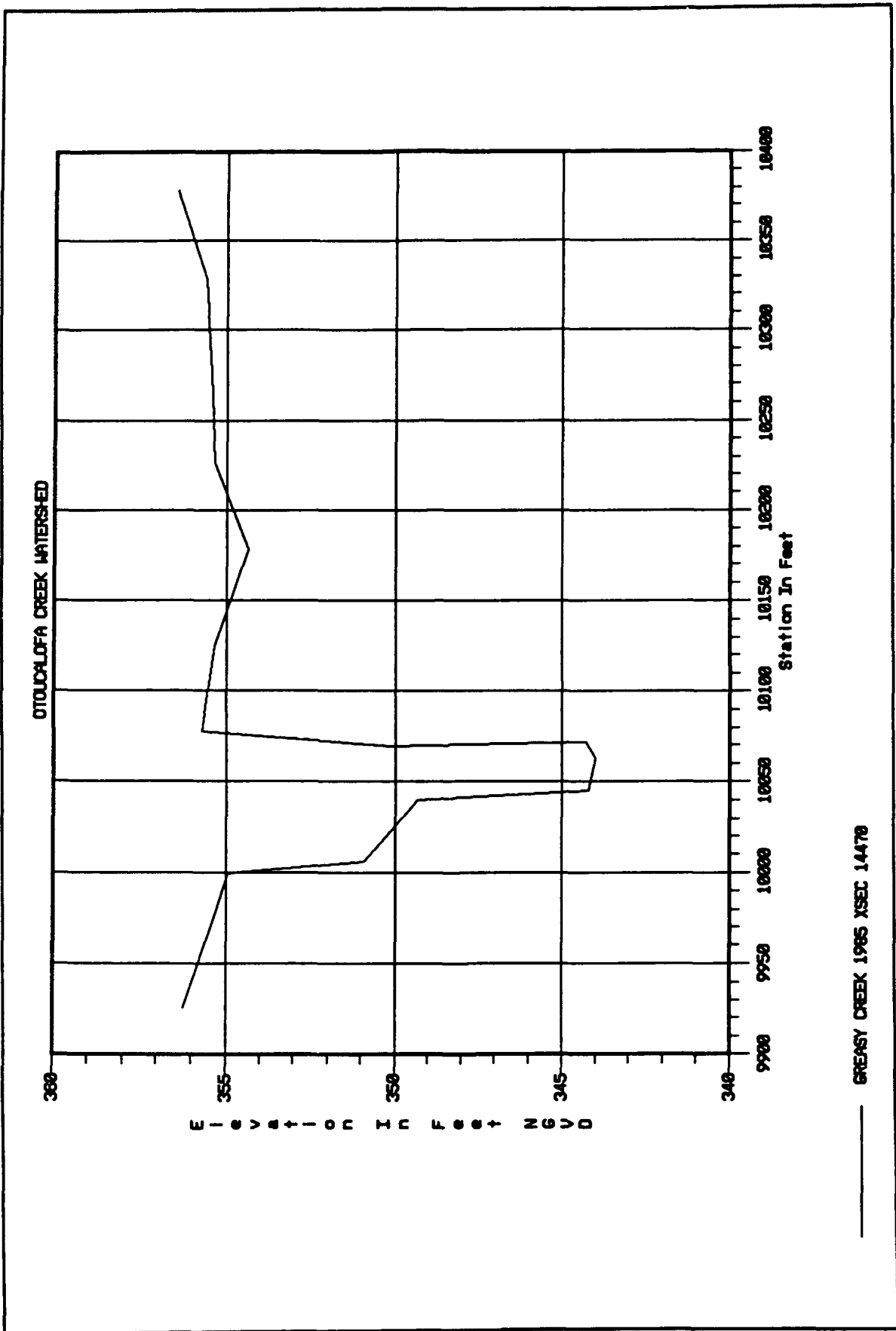
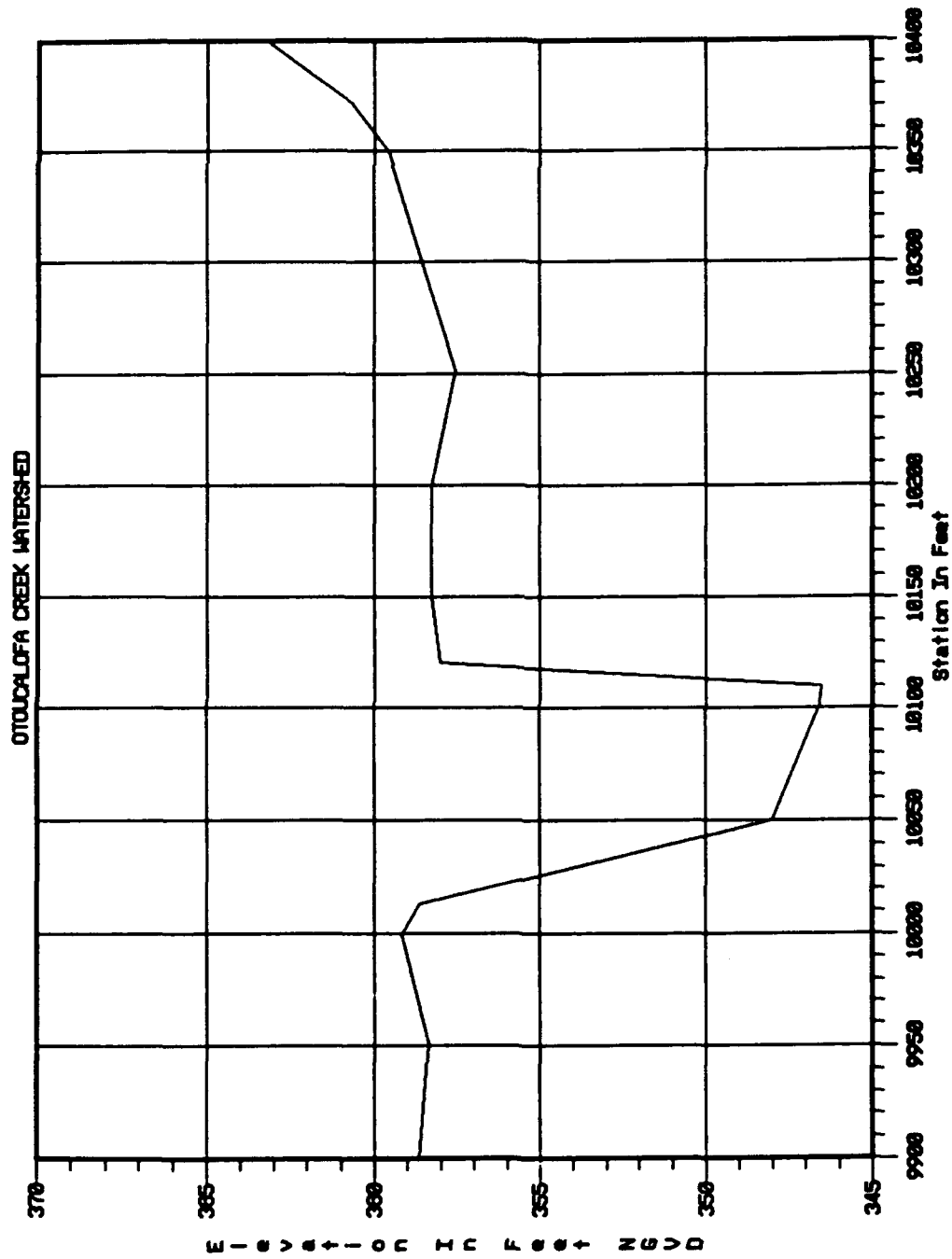


Plate C174



GREASY CREEK 1985 XSEC 15000

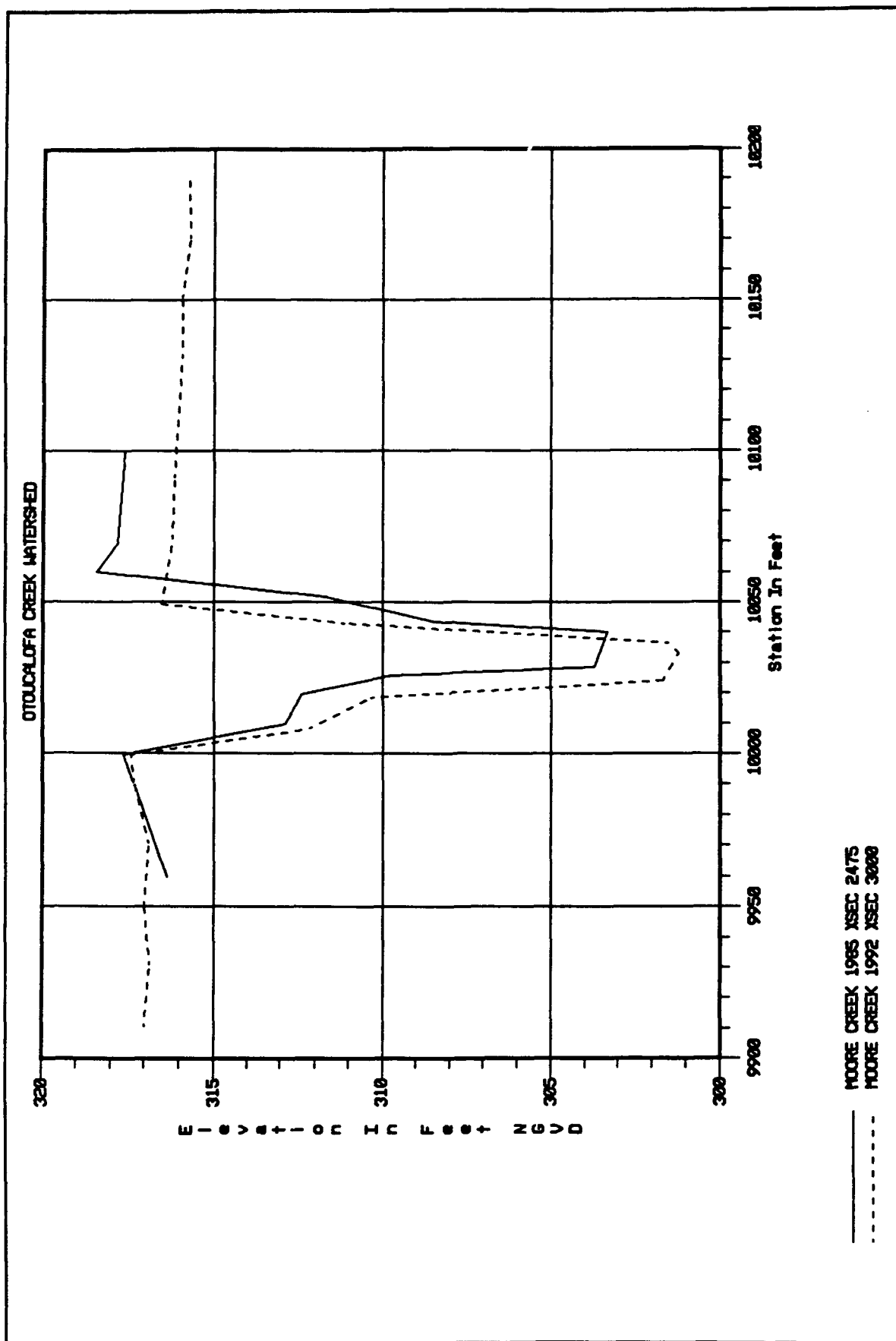
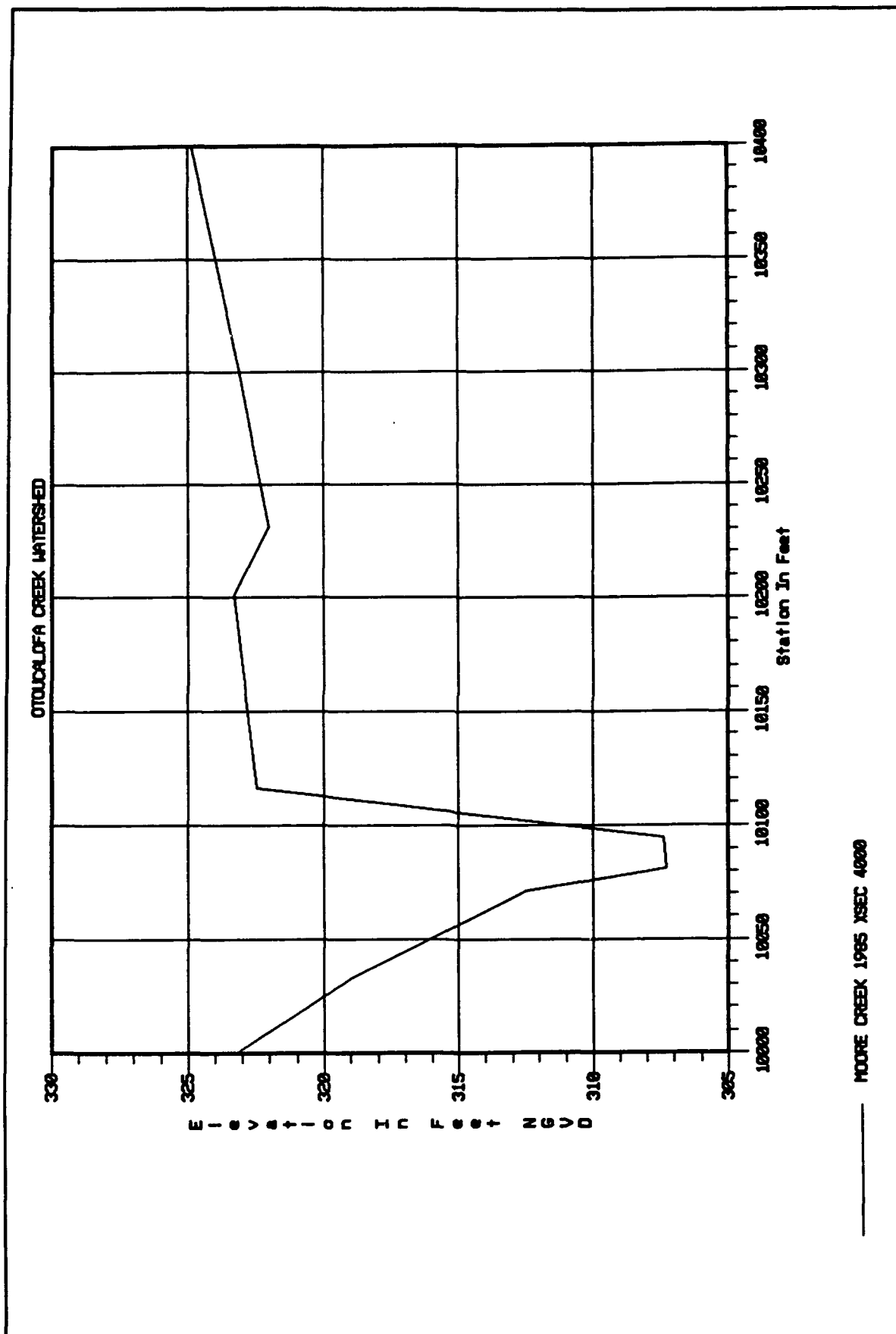


Plate C176





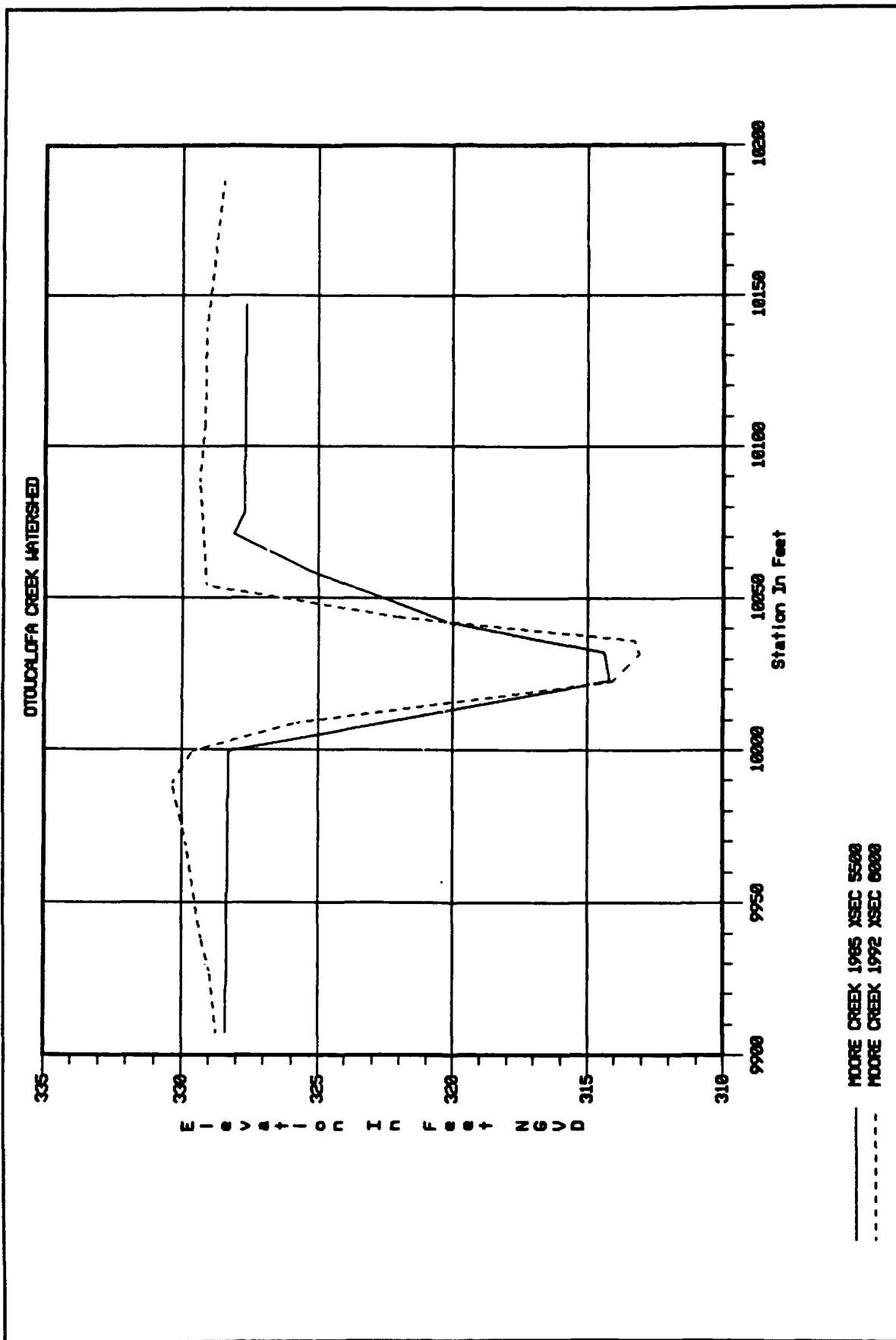
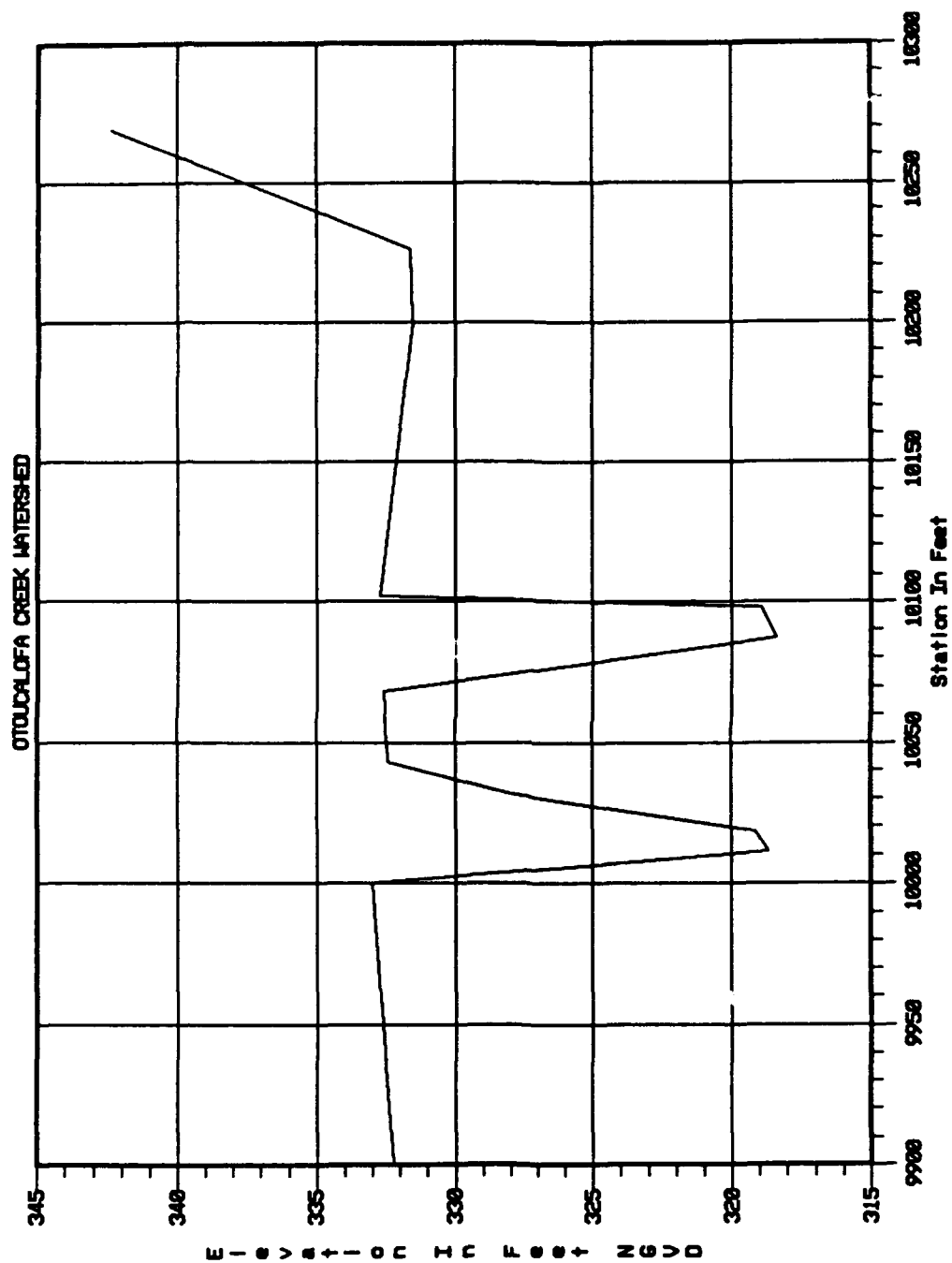


Plate C178



MOORE CREEK 1965 XSEC 0575

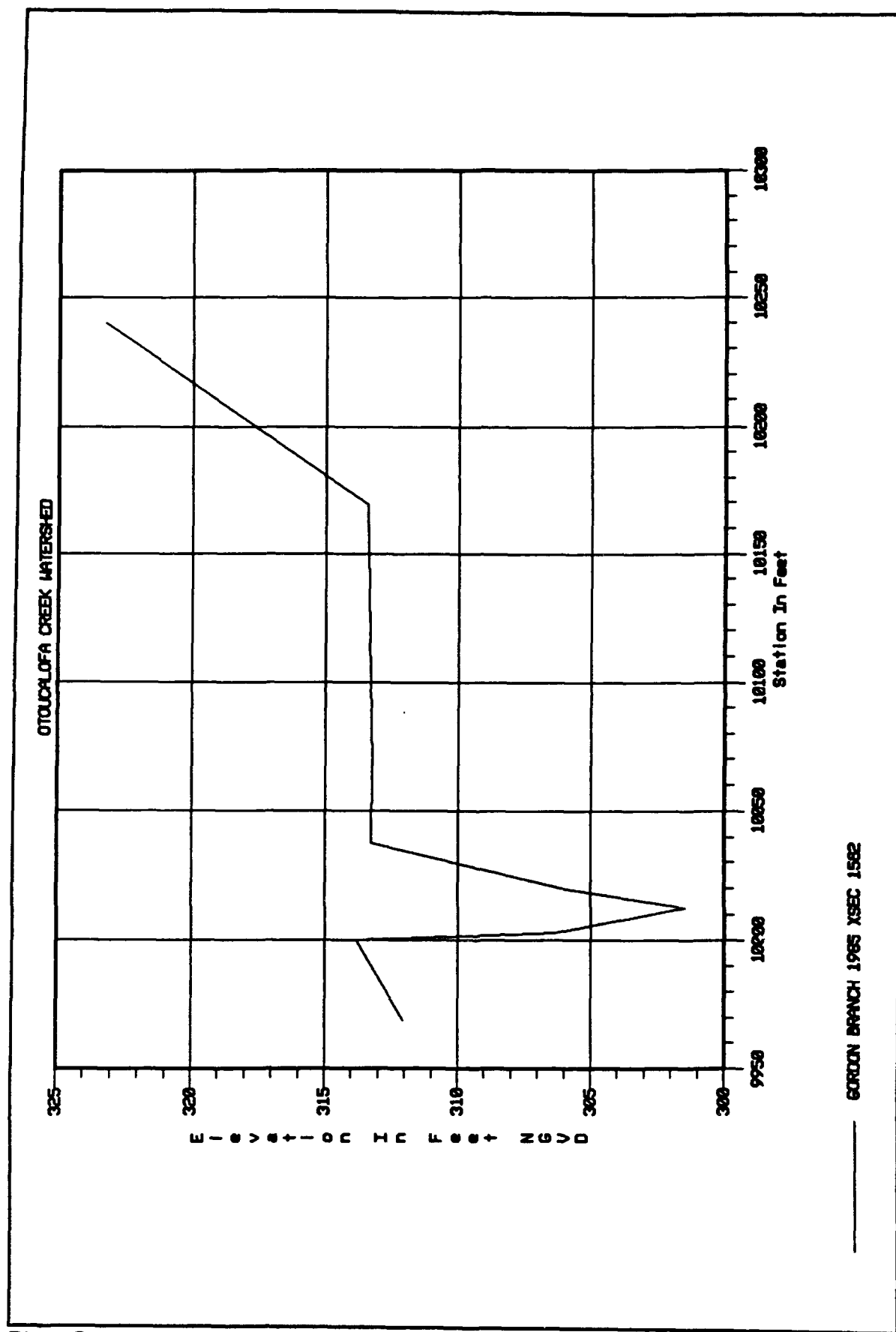
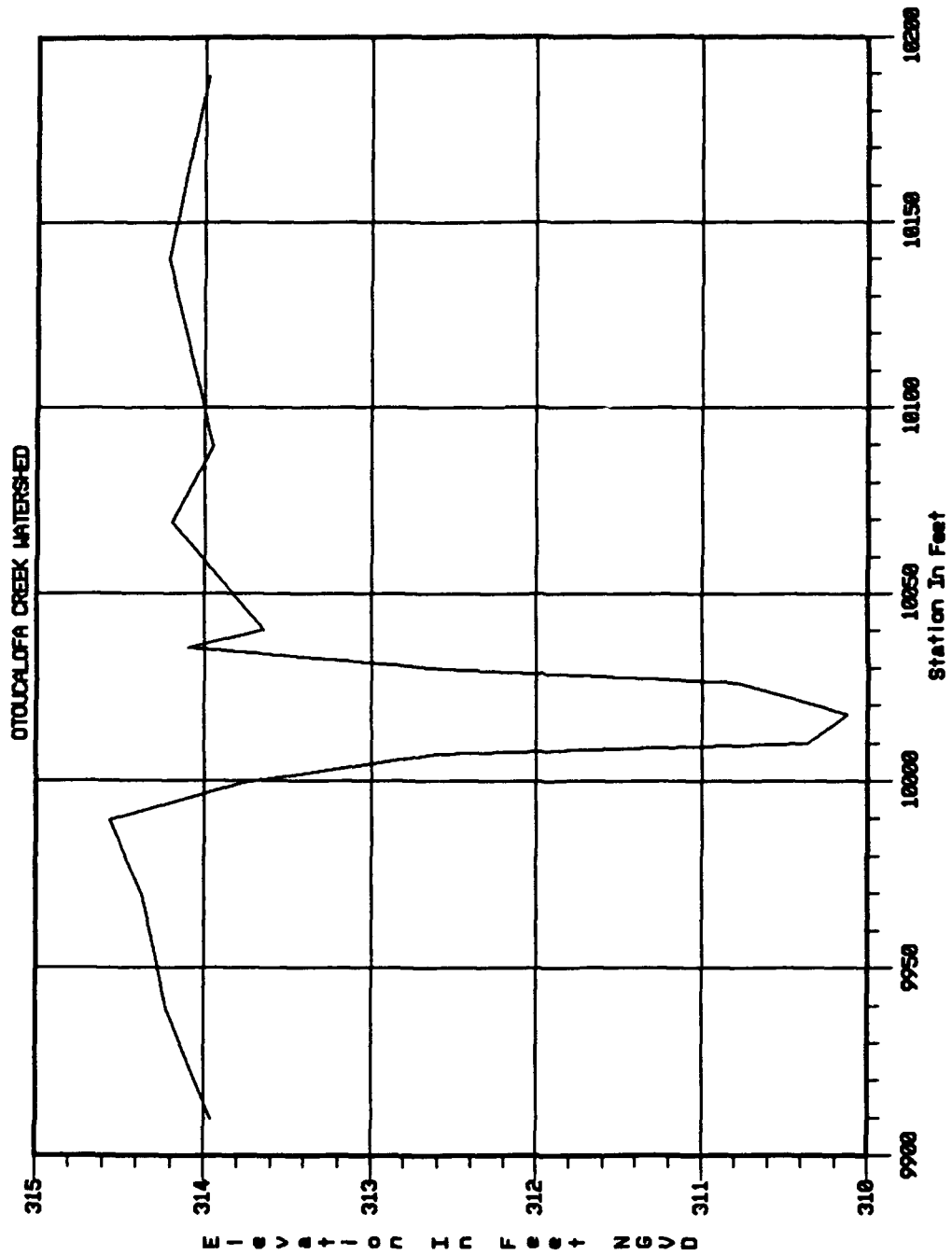
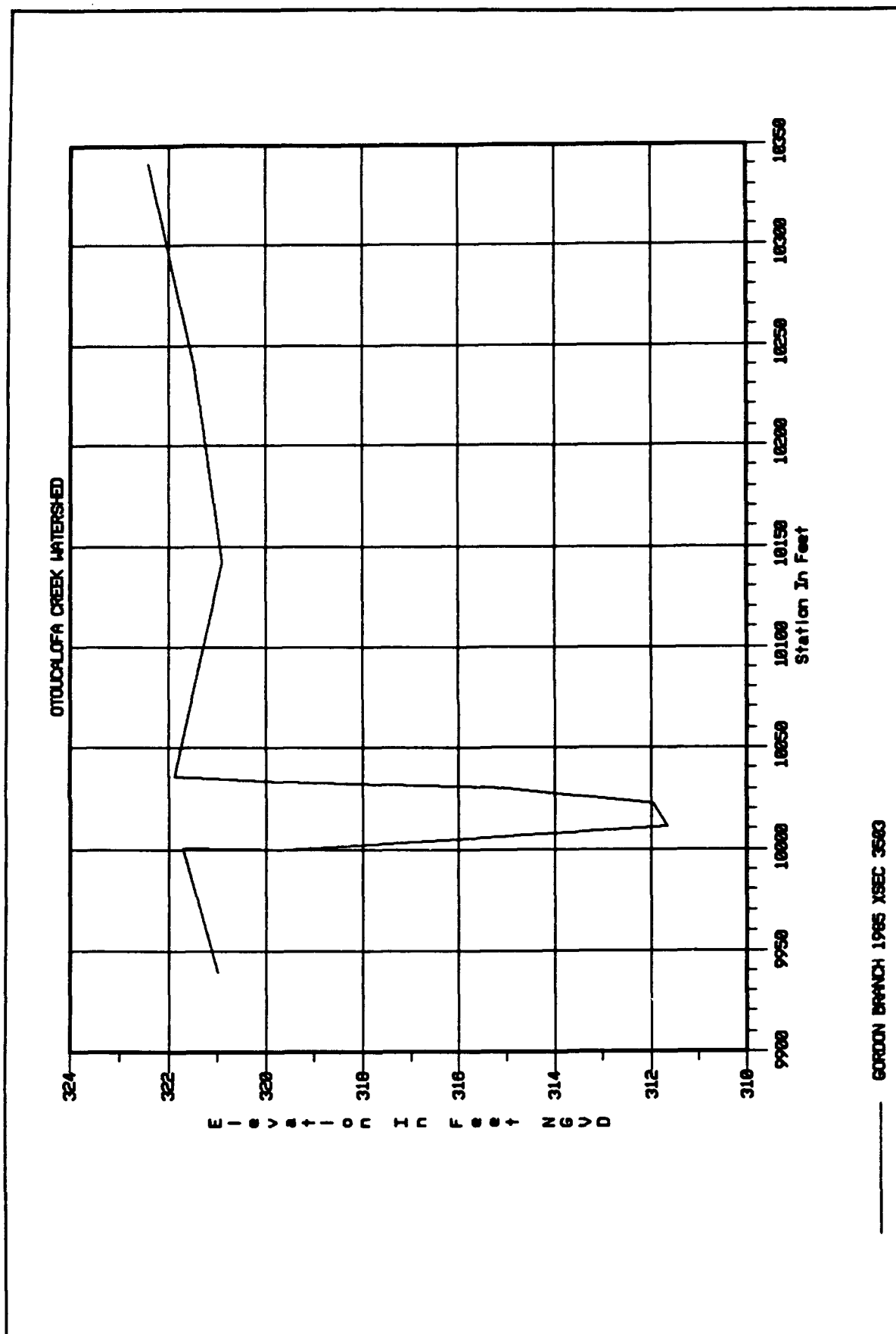
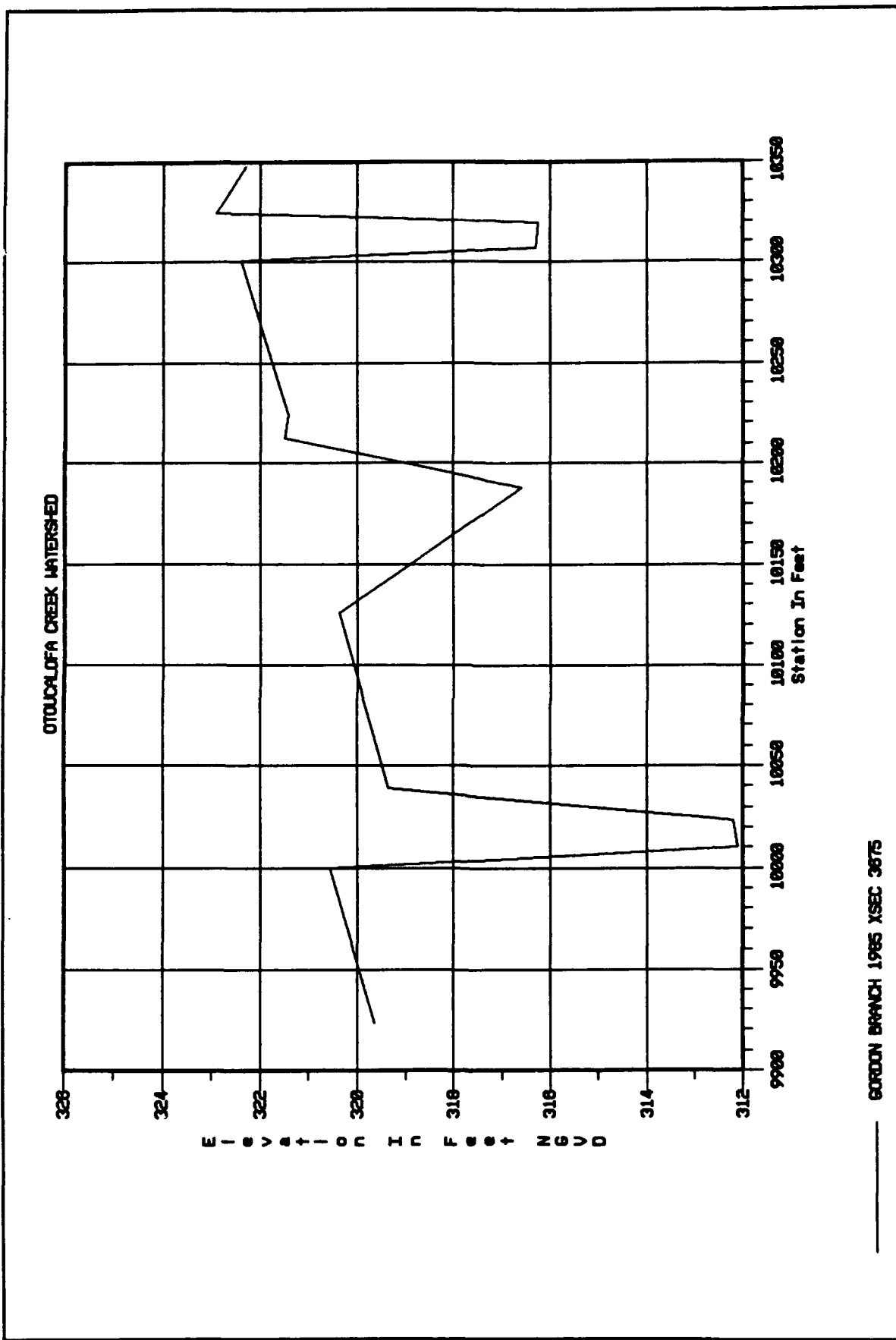


Plate C180



— GORDON BRANCH 1992 XSEC 3000





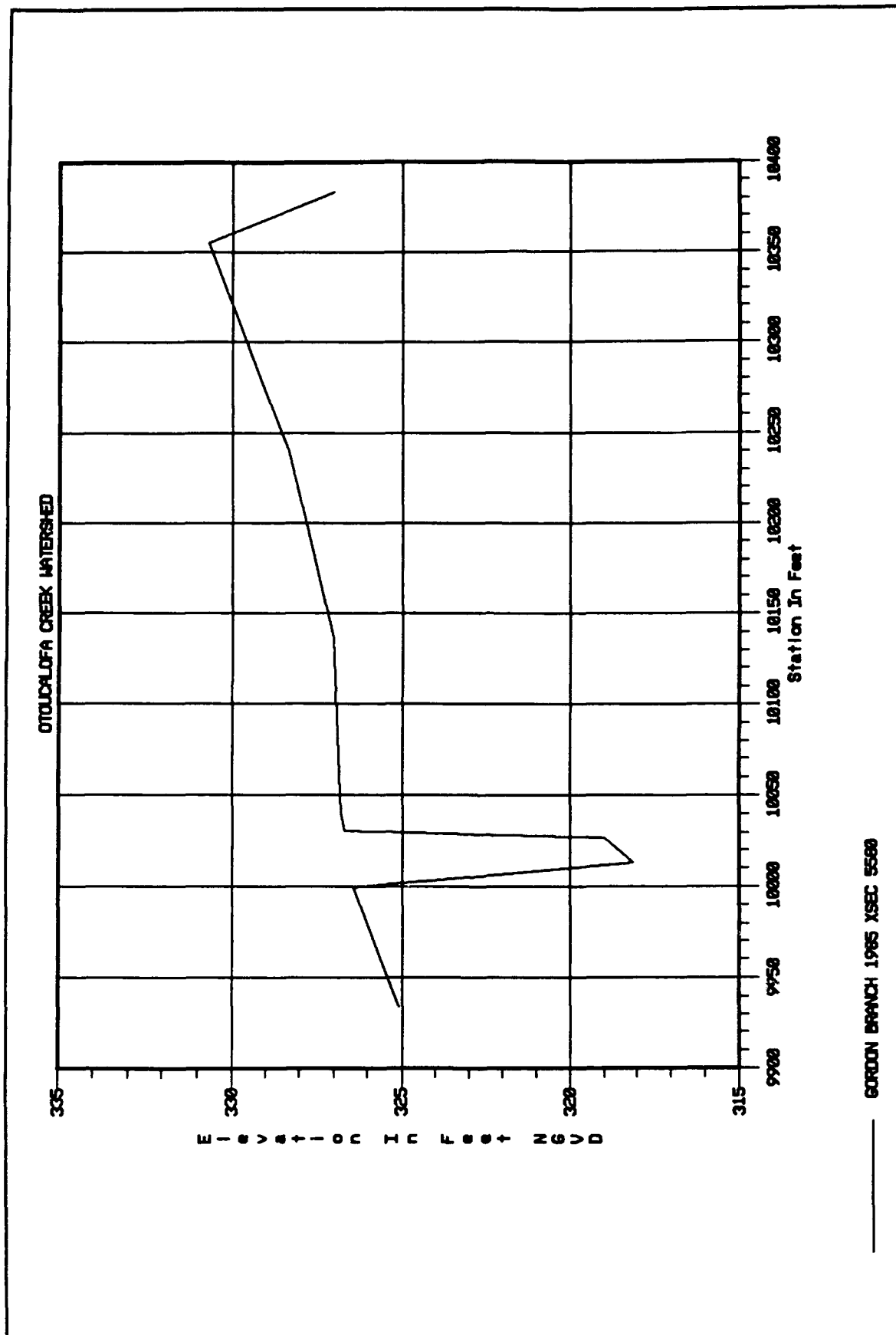
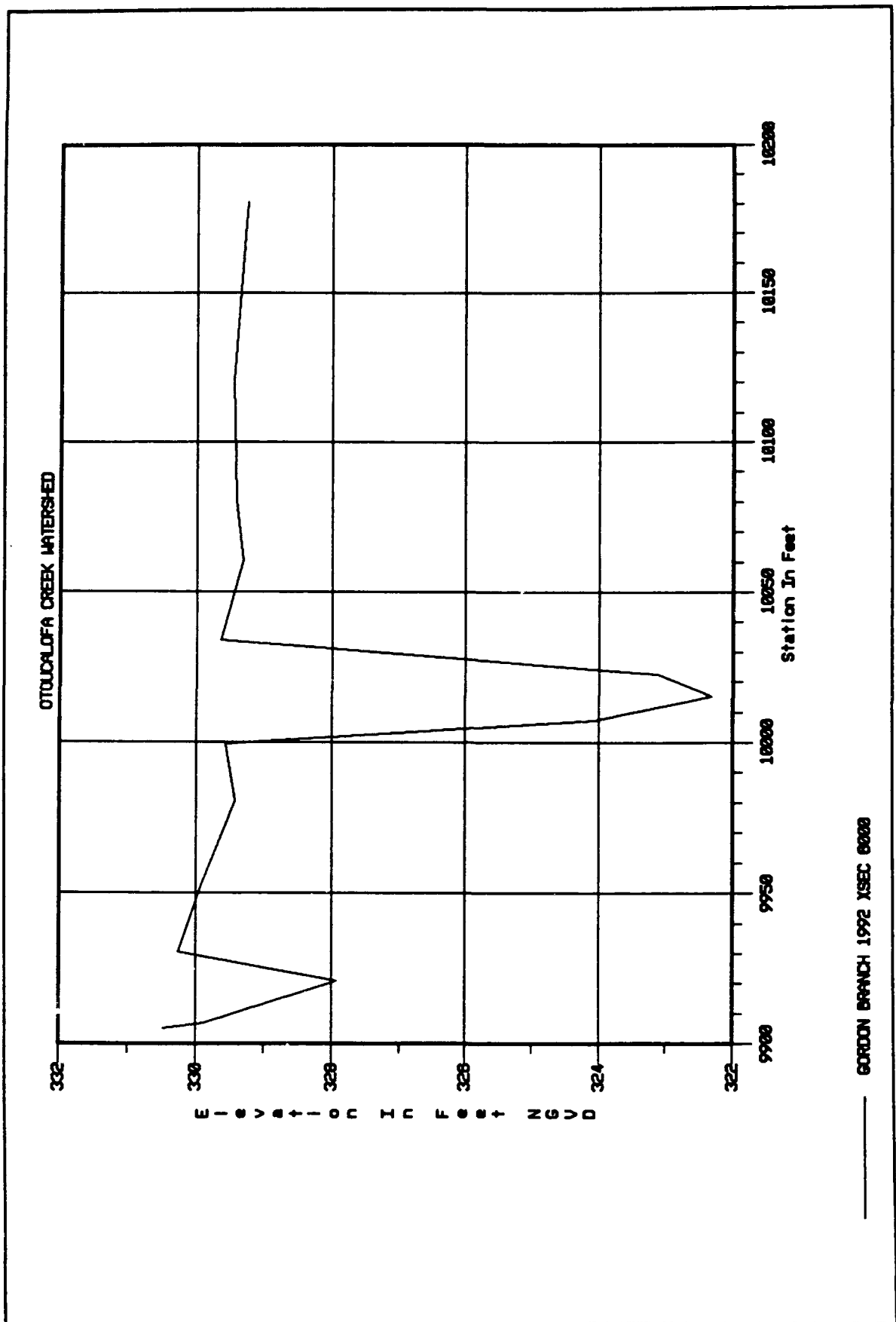


Plate C184





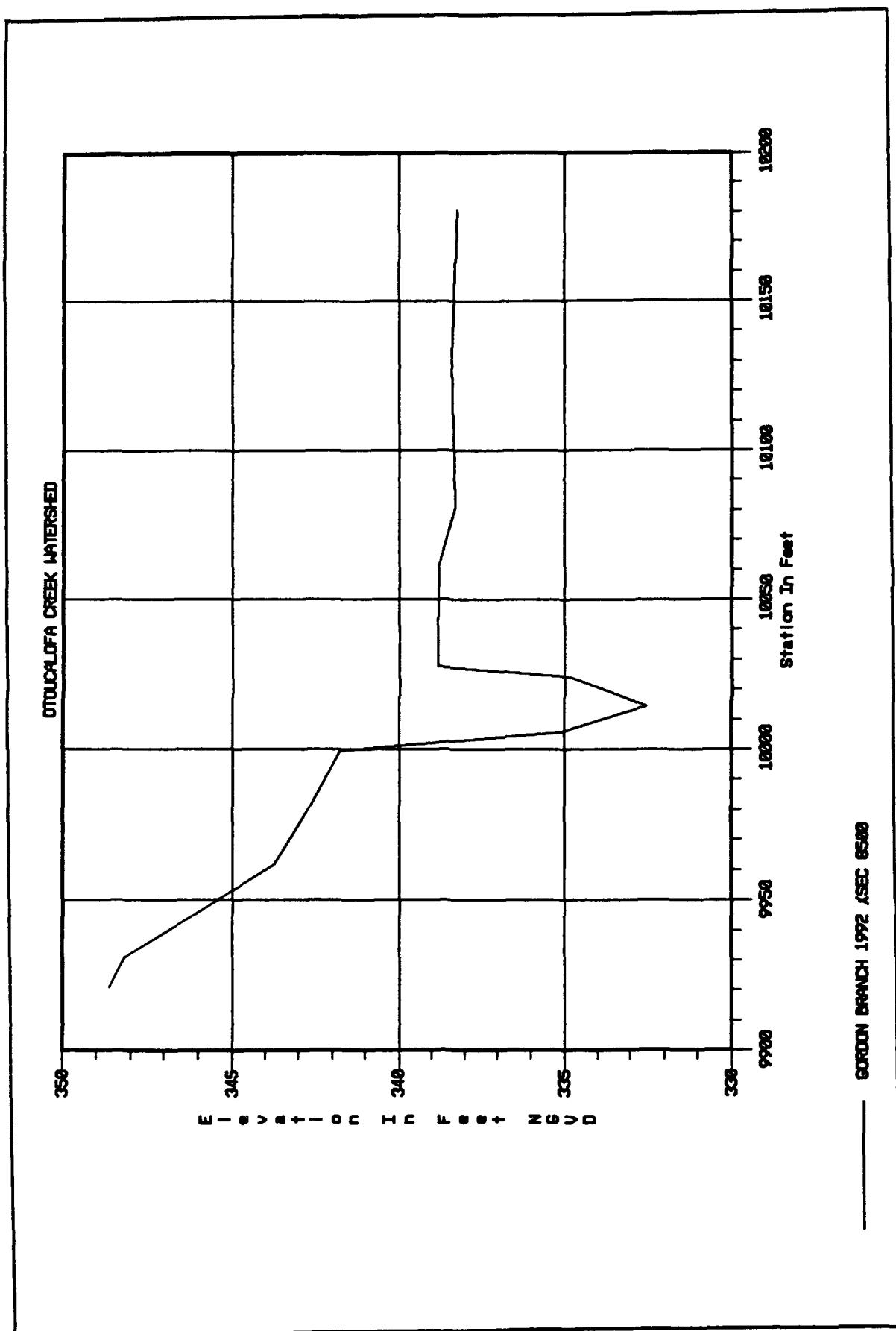
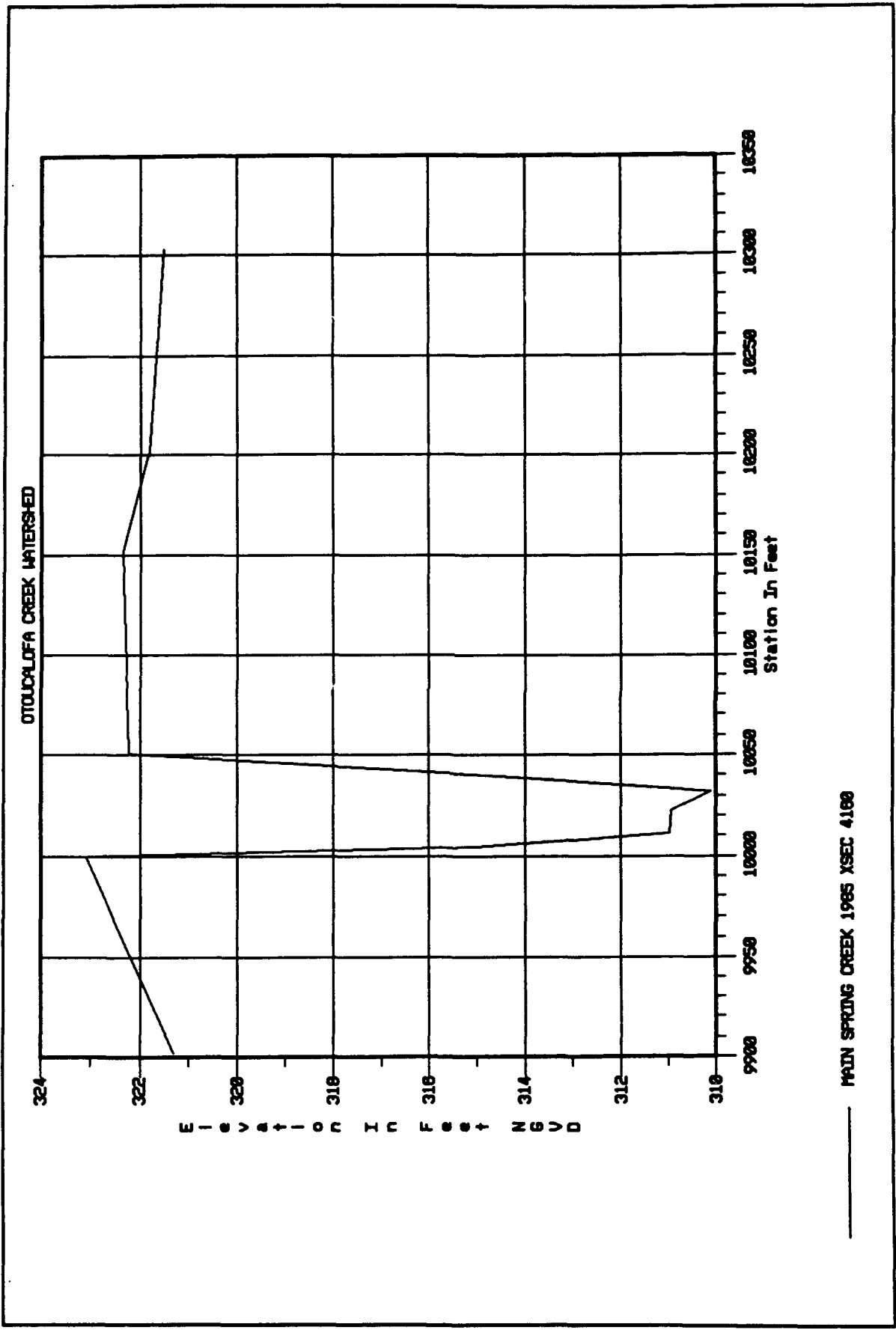


Plate C186



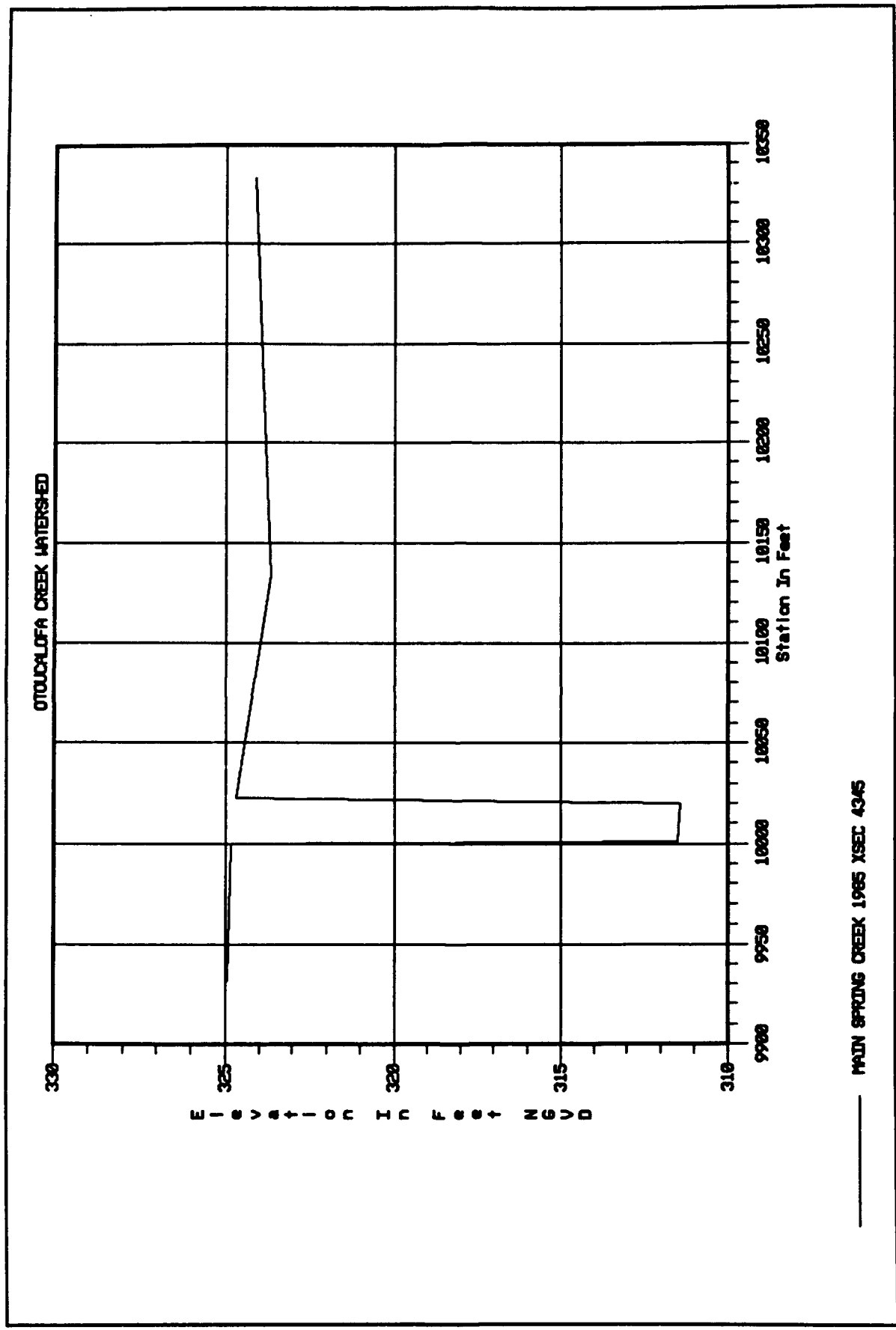
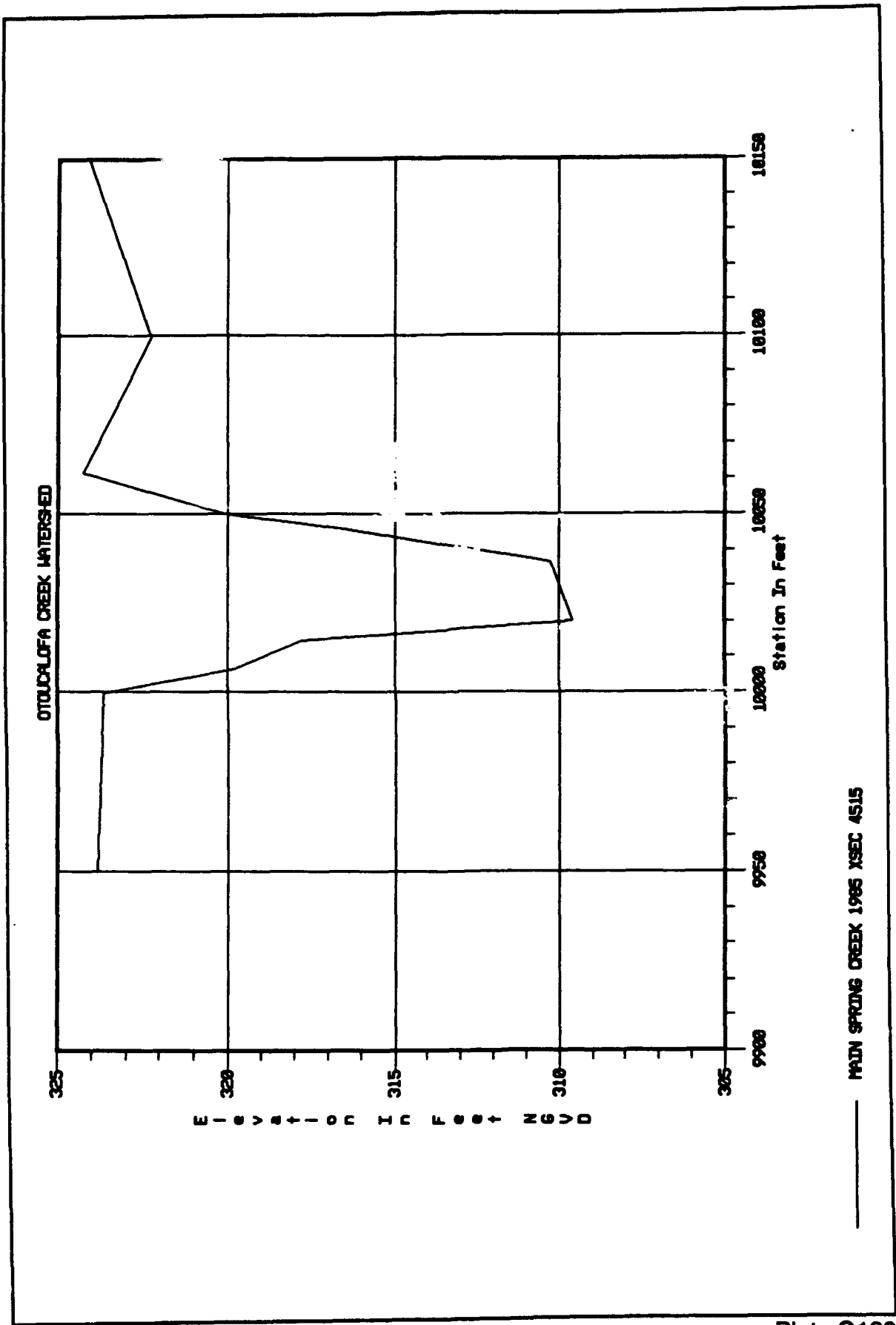


Plate C188



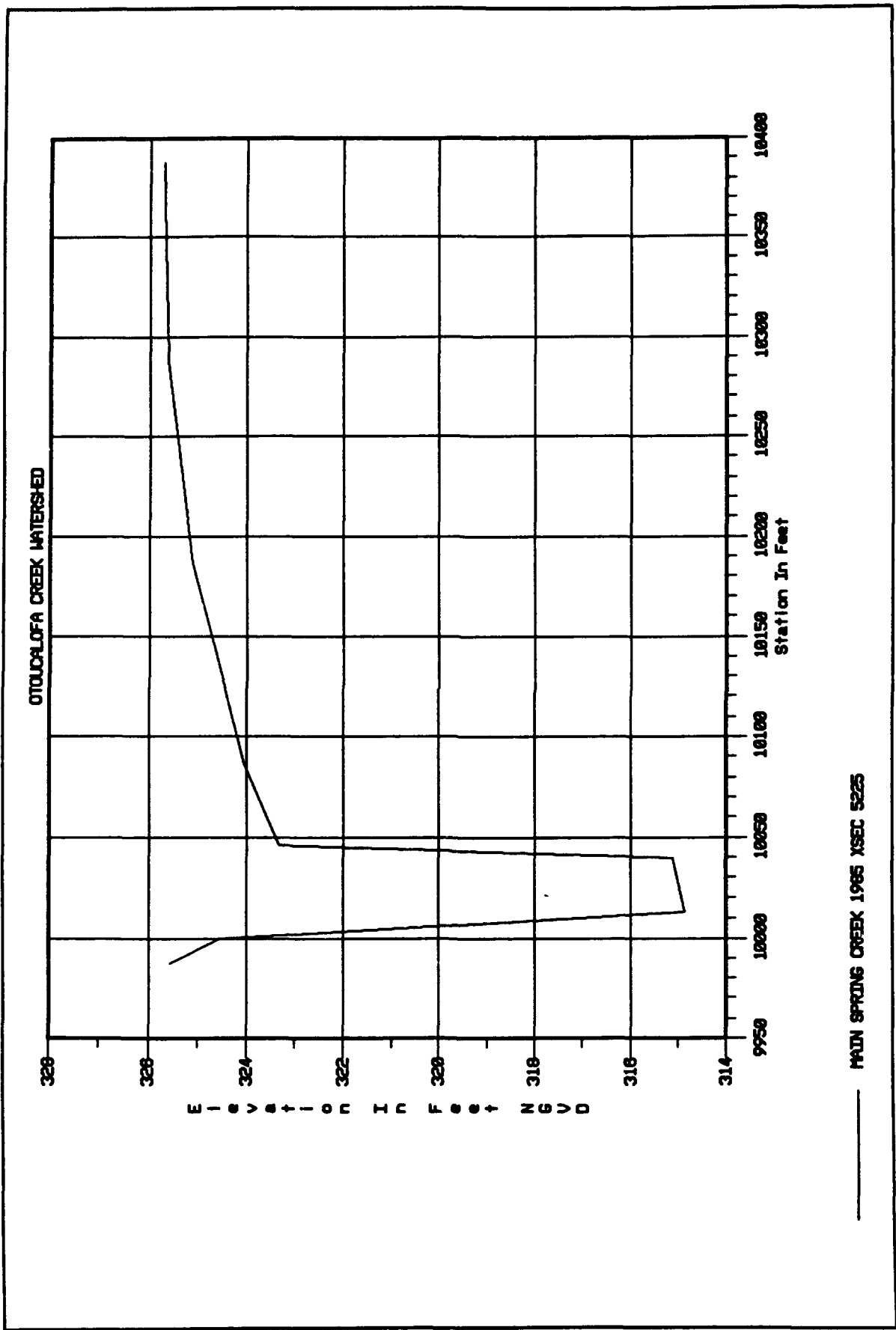
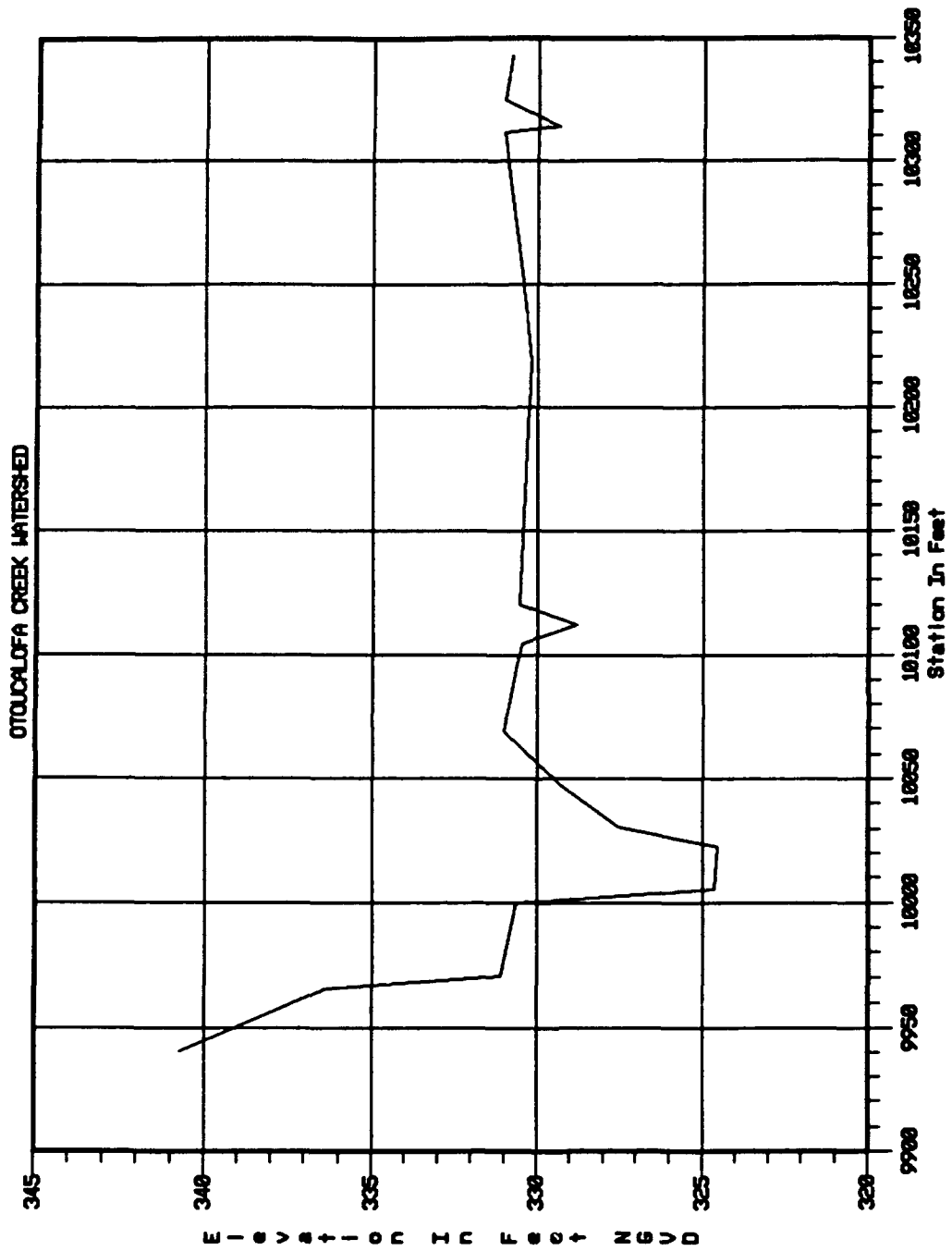


Plate C190



MAIN SPRING CREEK 1985 XSEC 0025

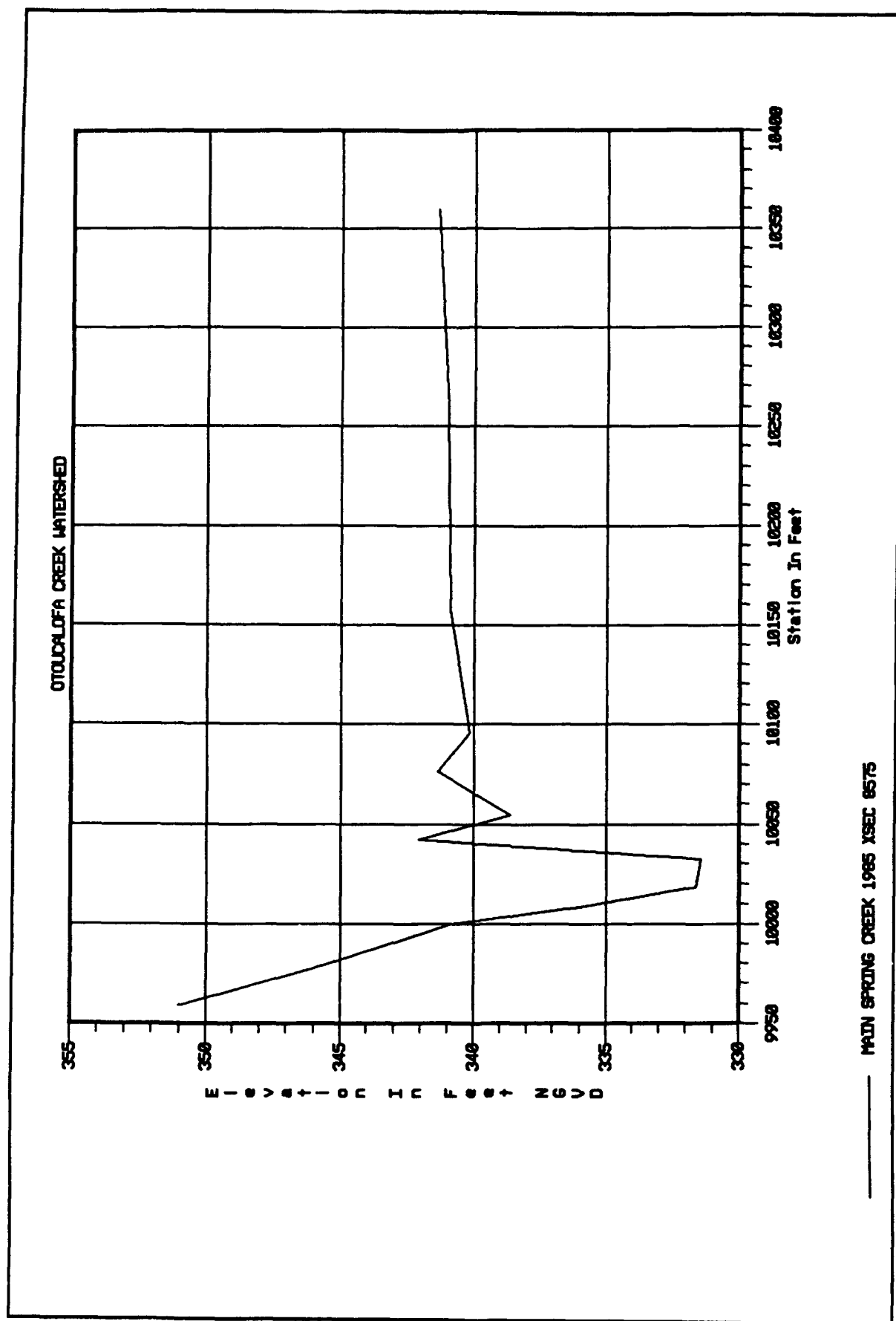
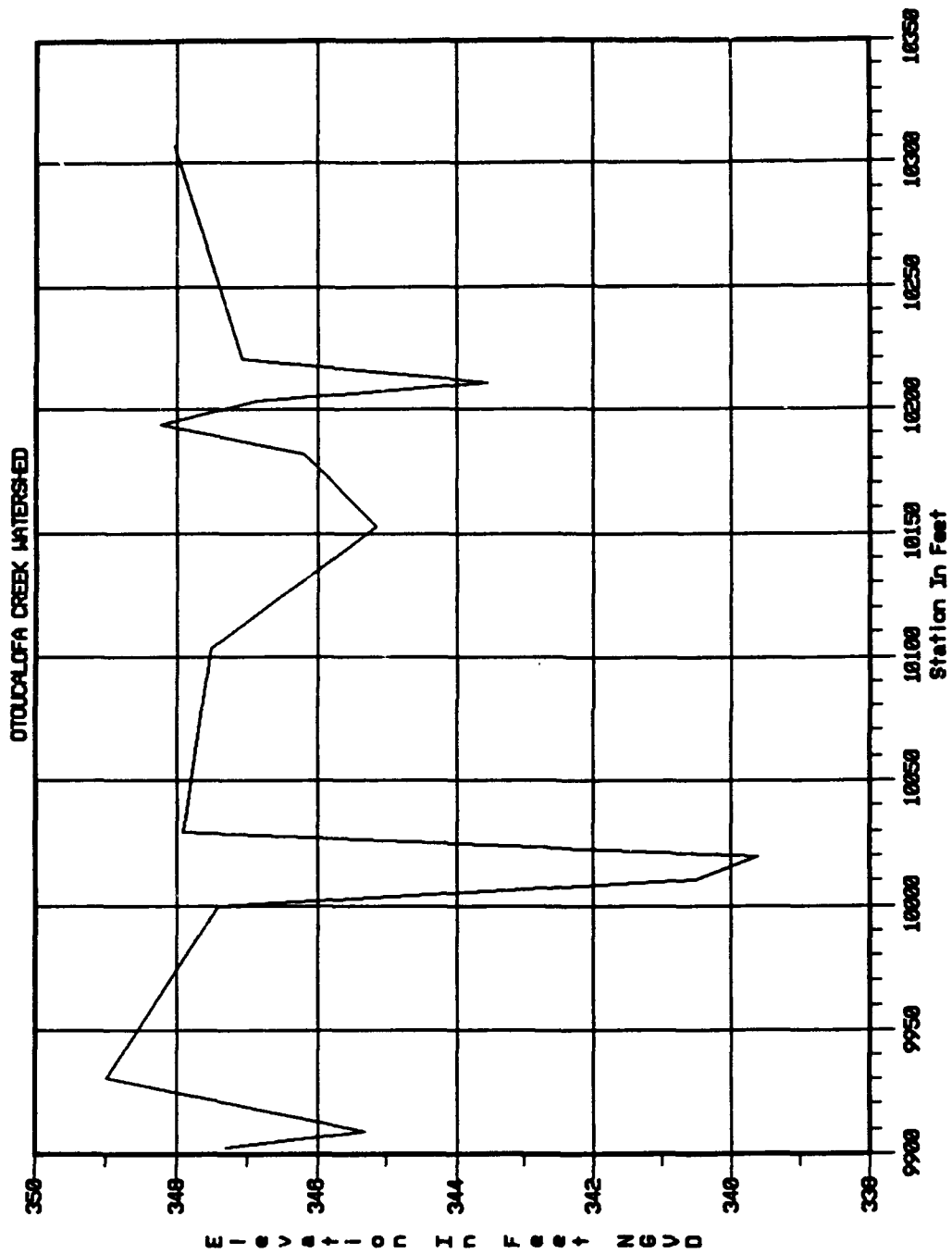
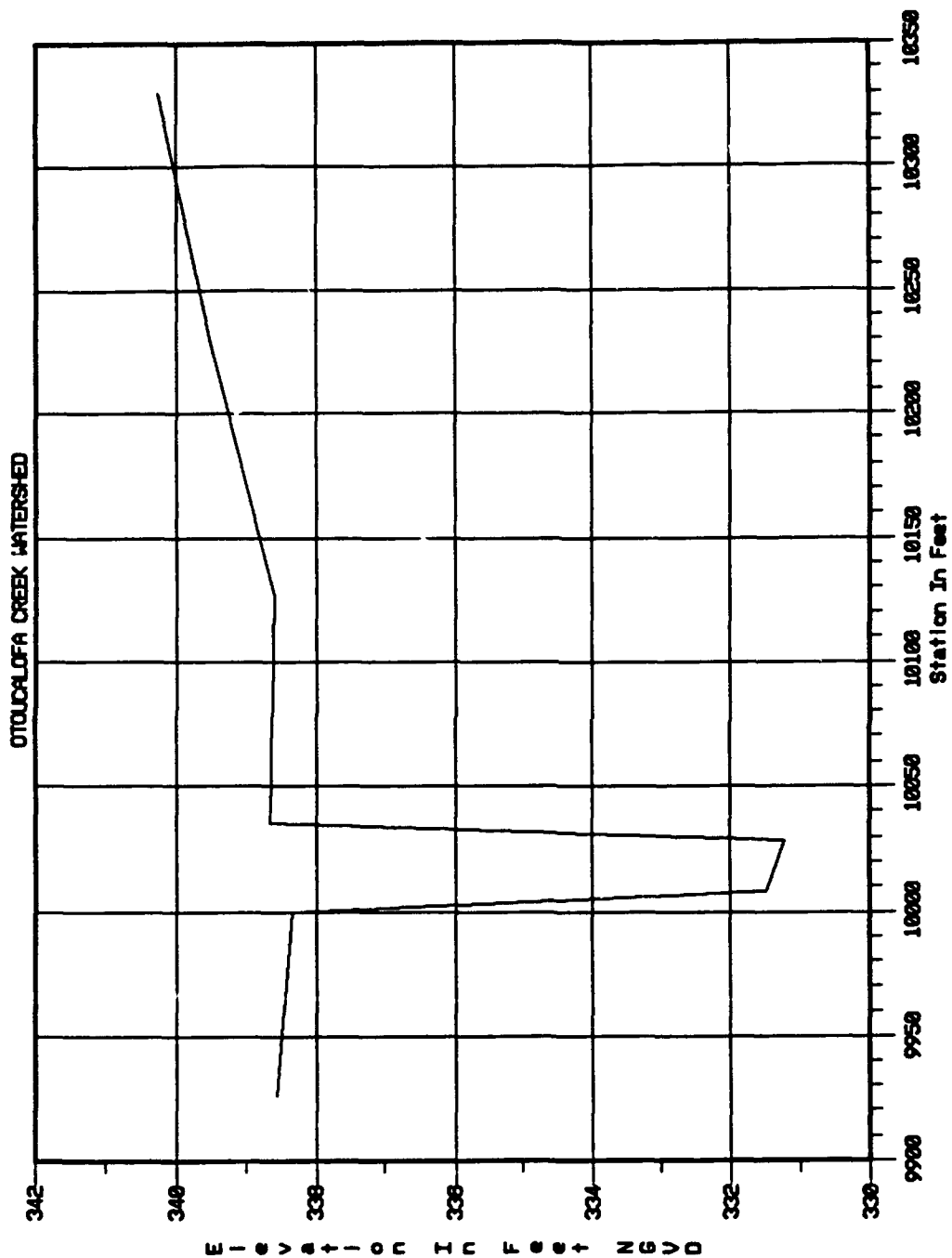


Plate C192



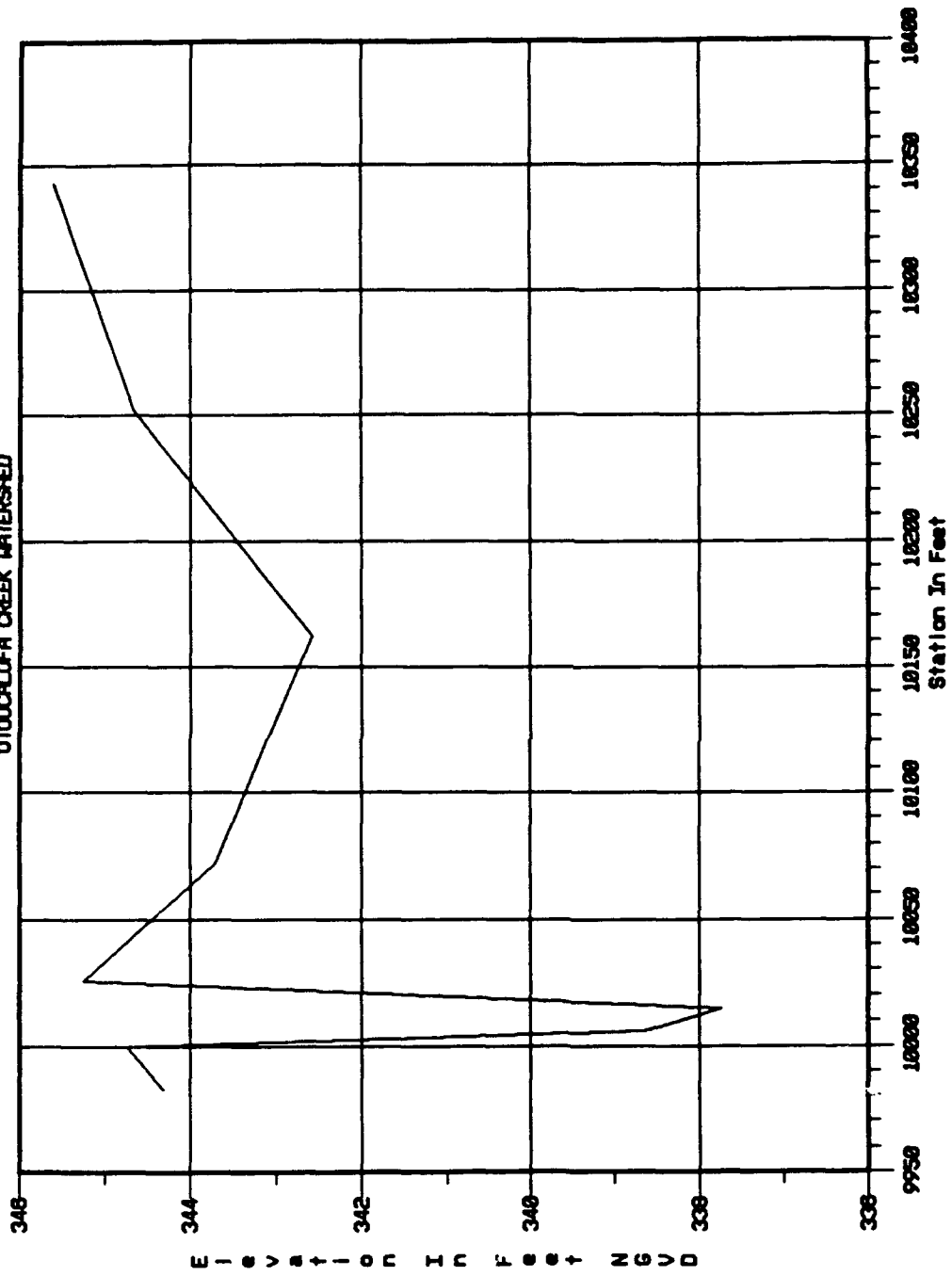
MAIN SPRING CREEK 1965 XSEC 10235





— SOUTH SPRING CREEK 1965 XSEC 3065

OTOLUCHLOFA CREEK WATERSHED



— SOUTH SPRING CREEK 1985 XSEC 6900

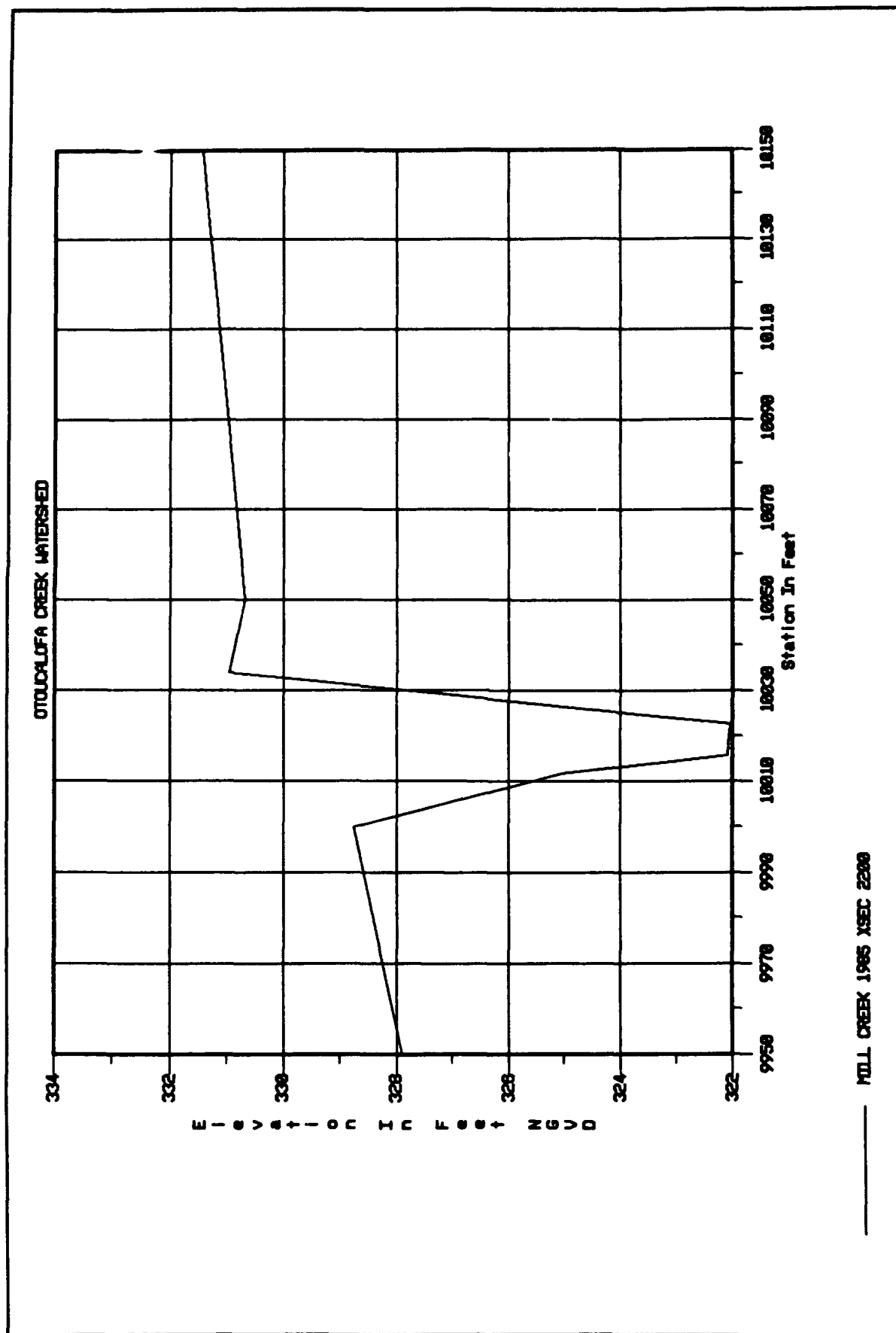
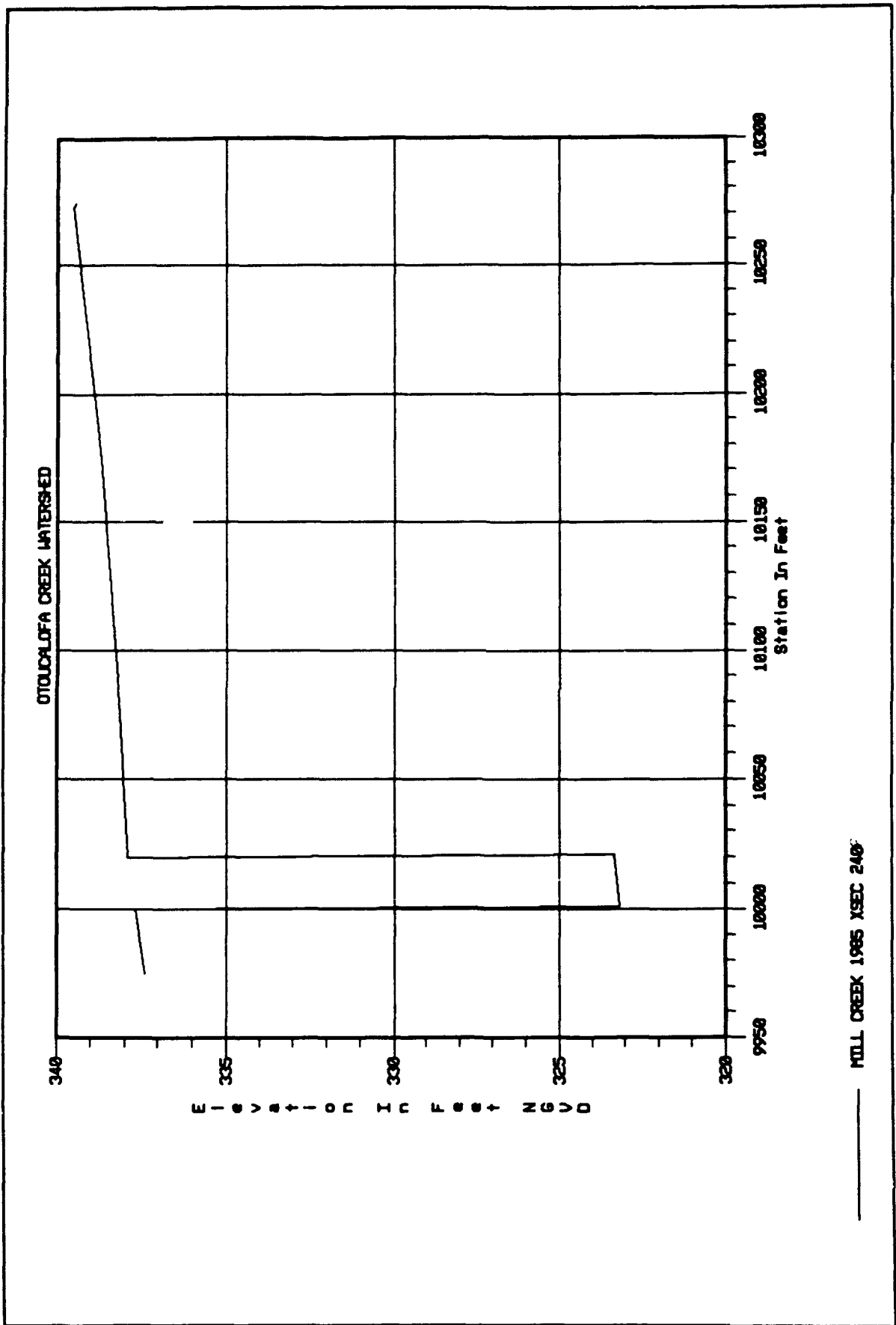


Plate C196



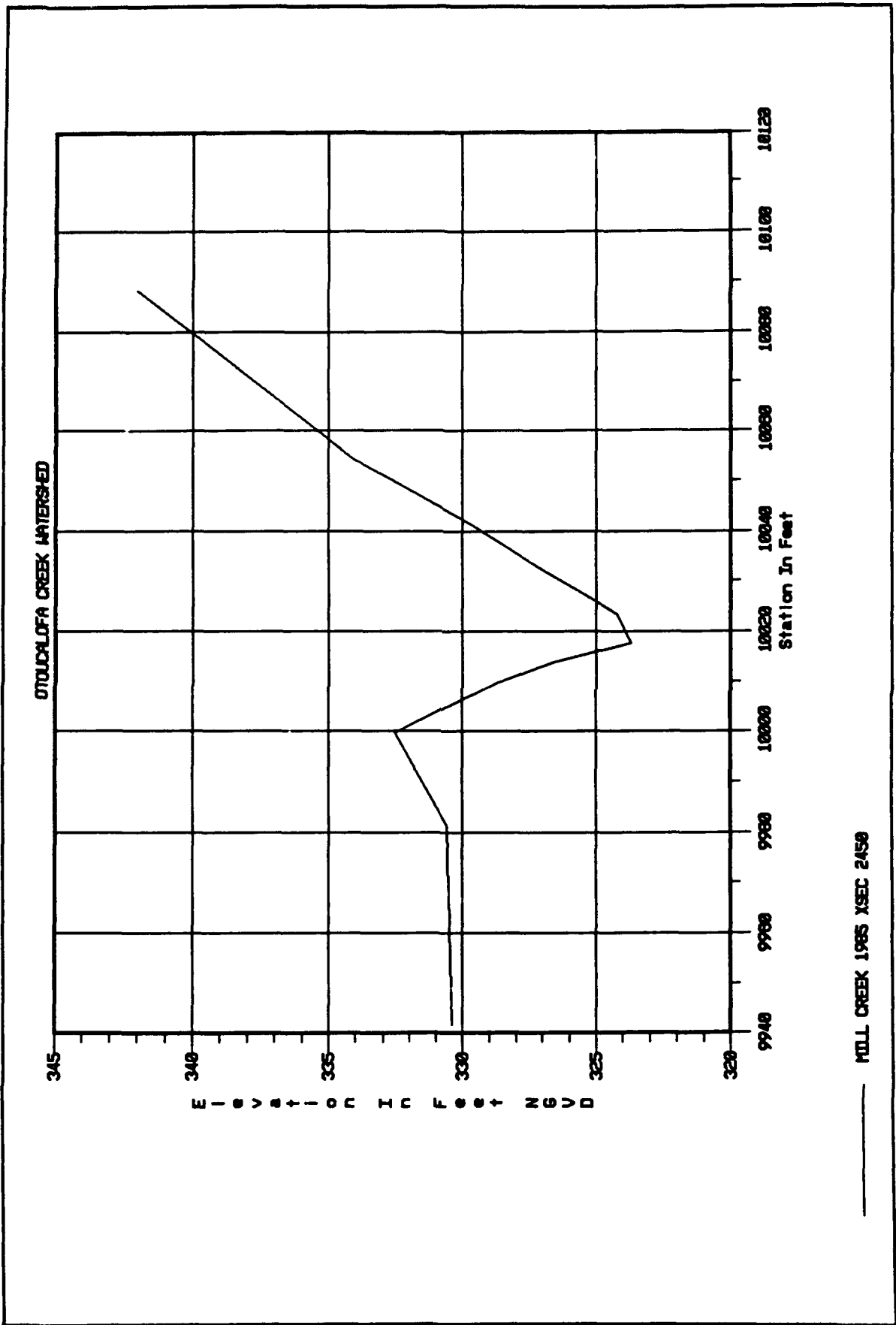
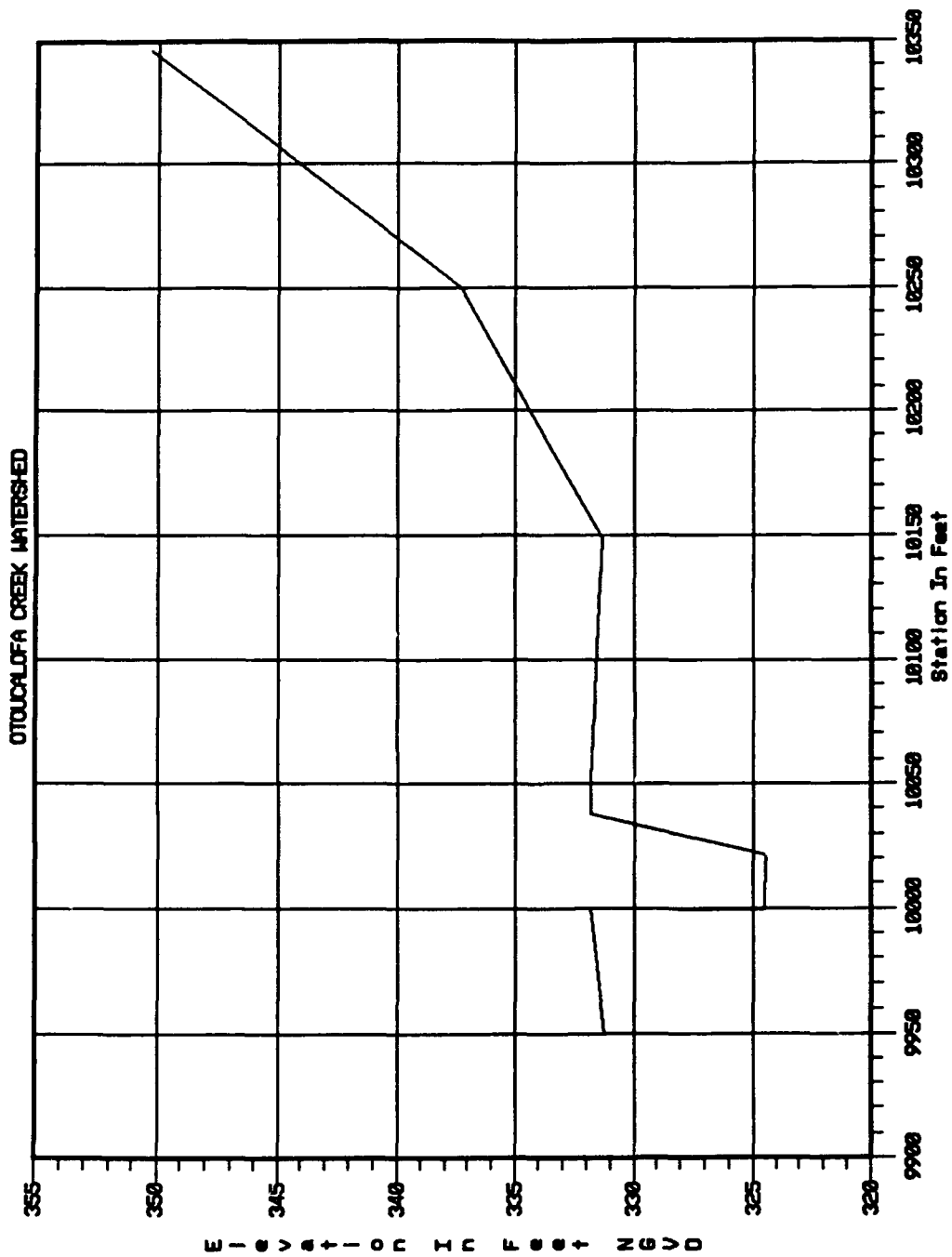


Plate C198



\_\_\_\_\_ MILL CREEK 1985 XSEC 2505

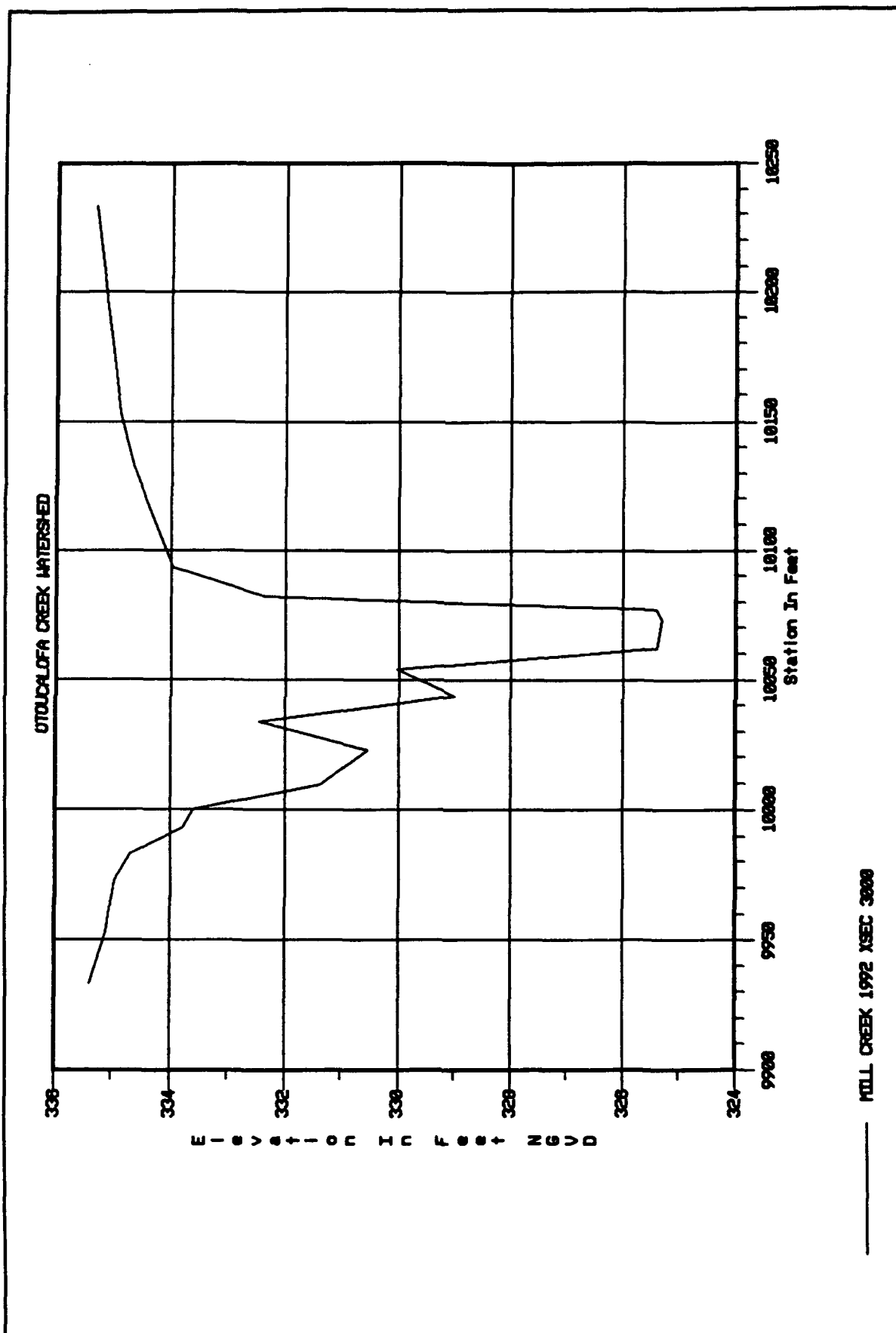
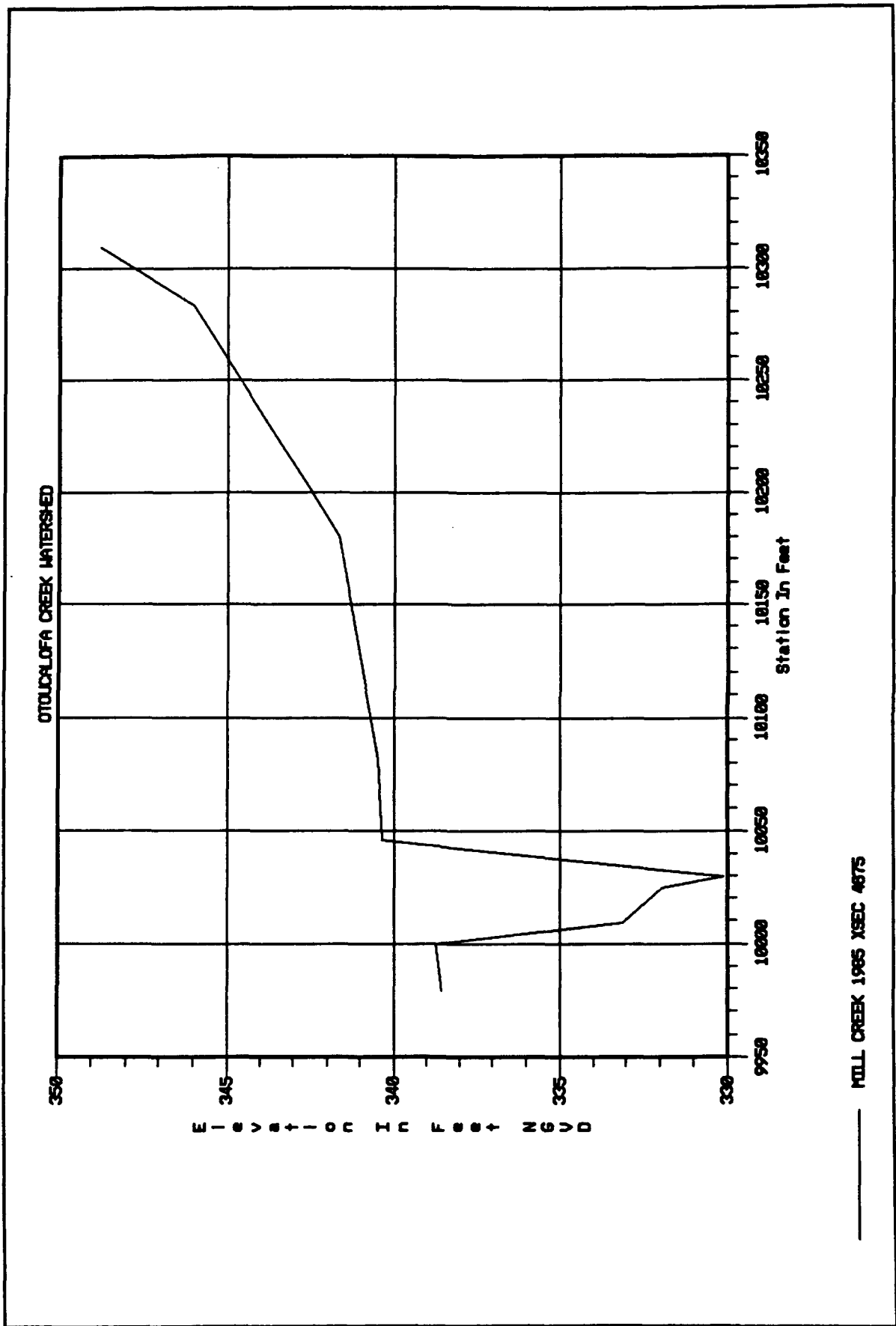


Plate C200





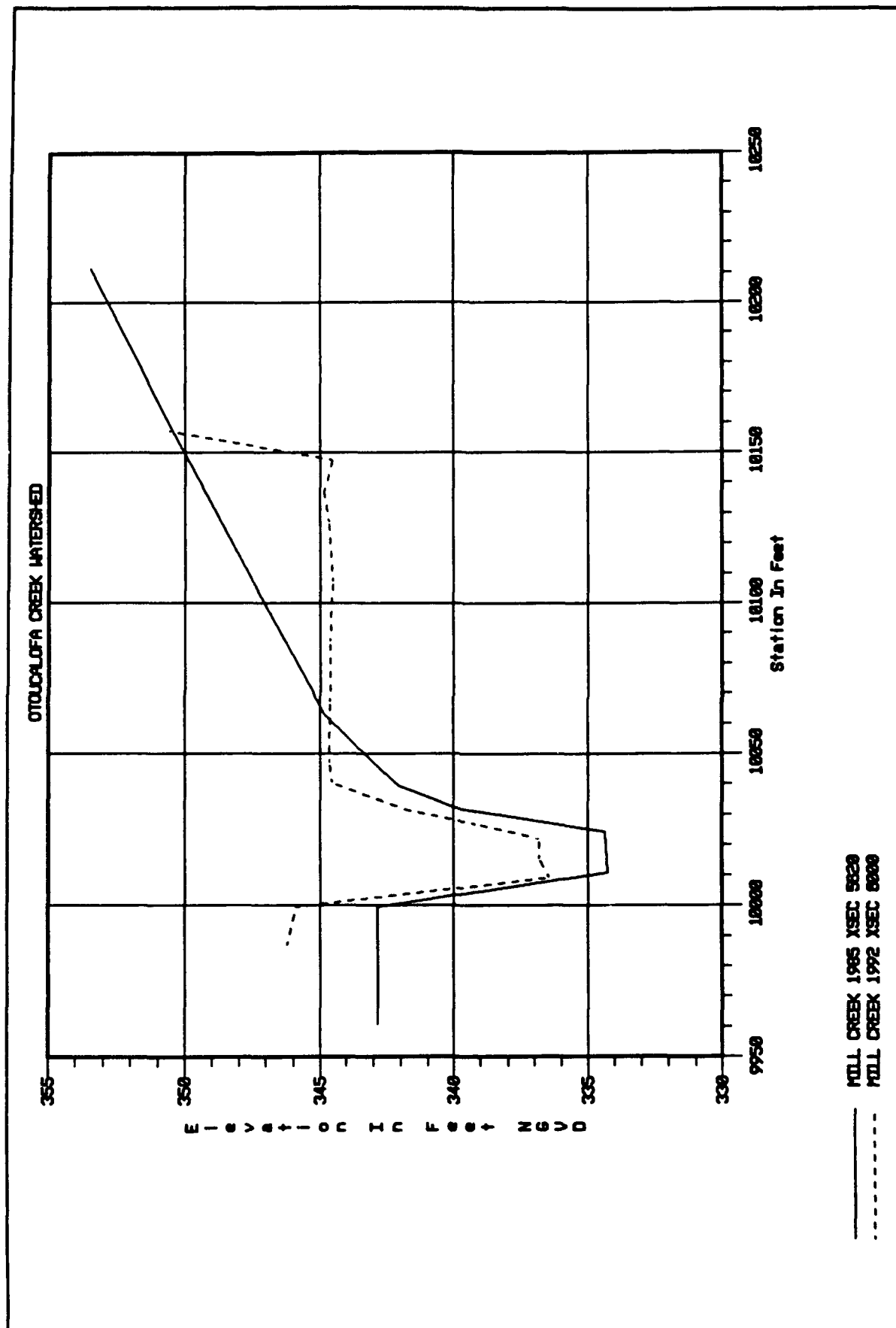
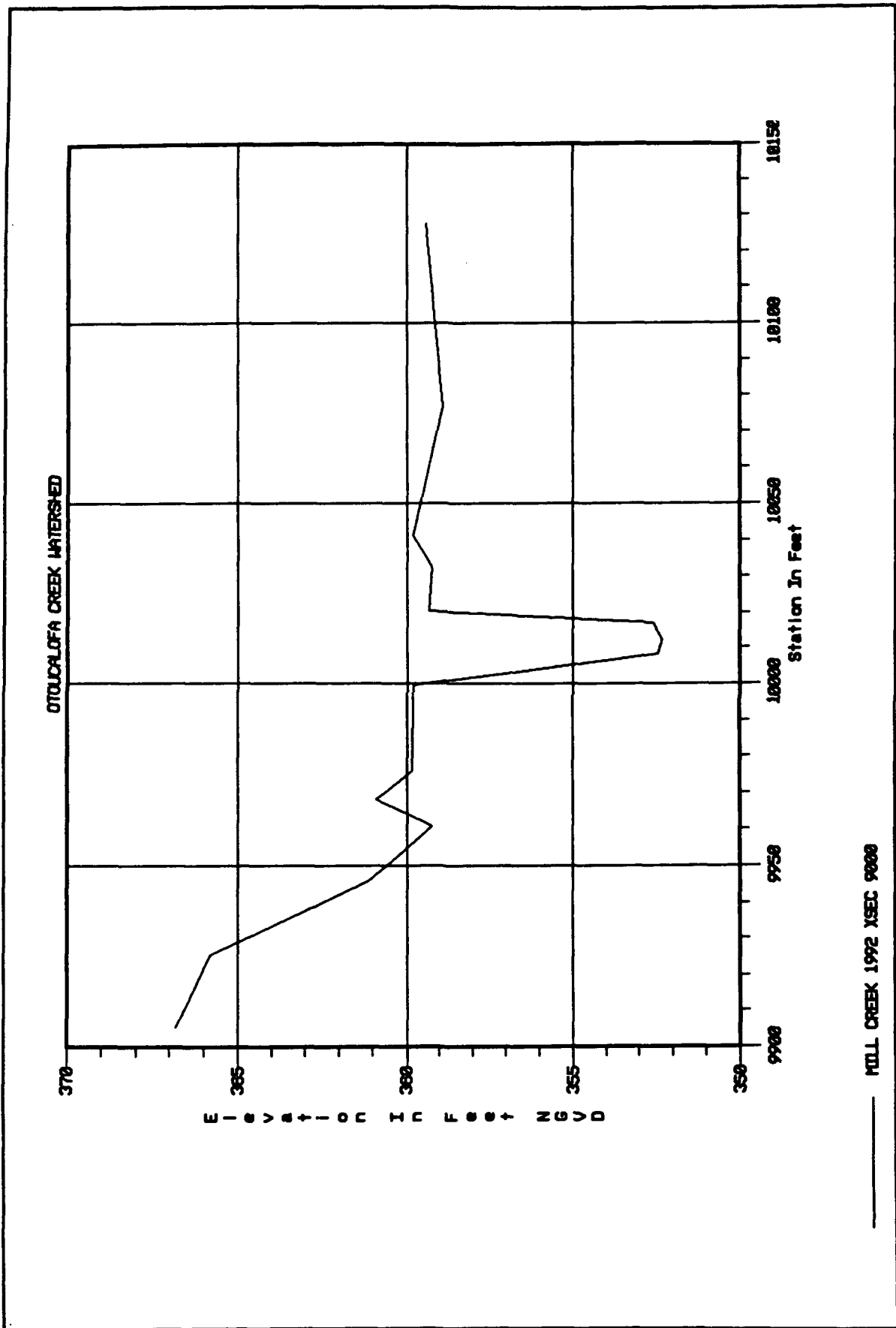
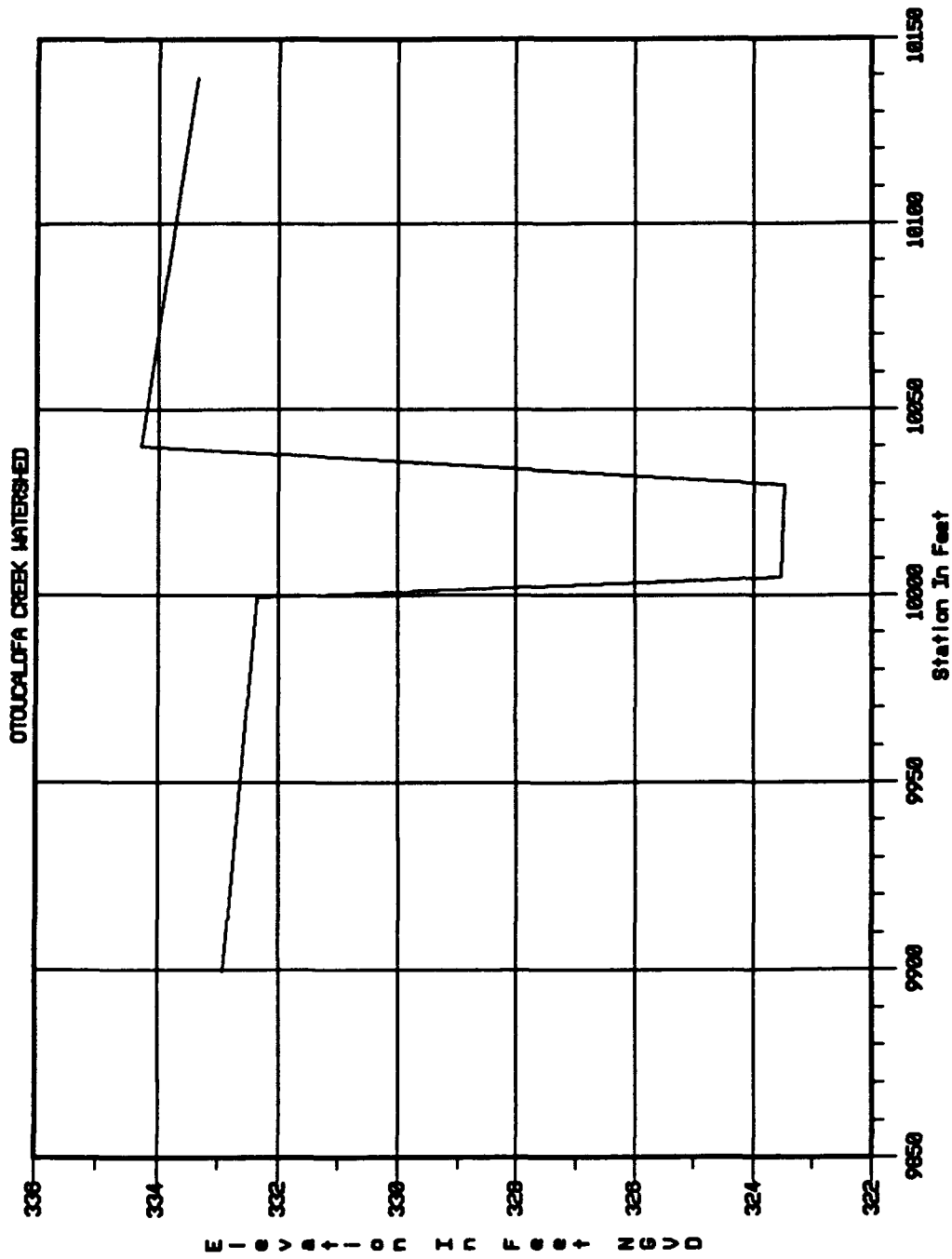
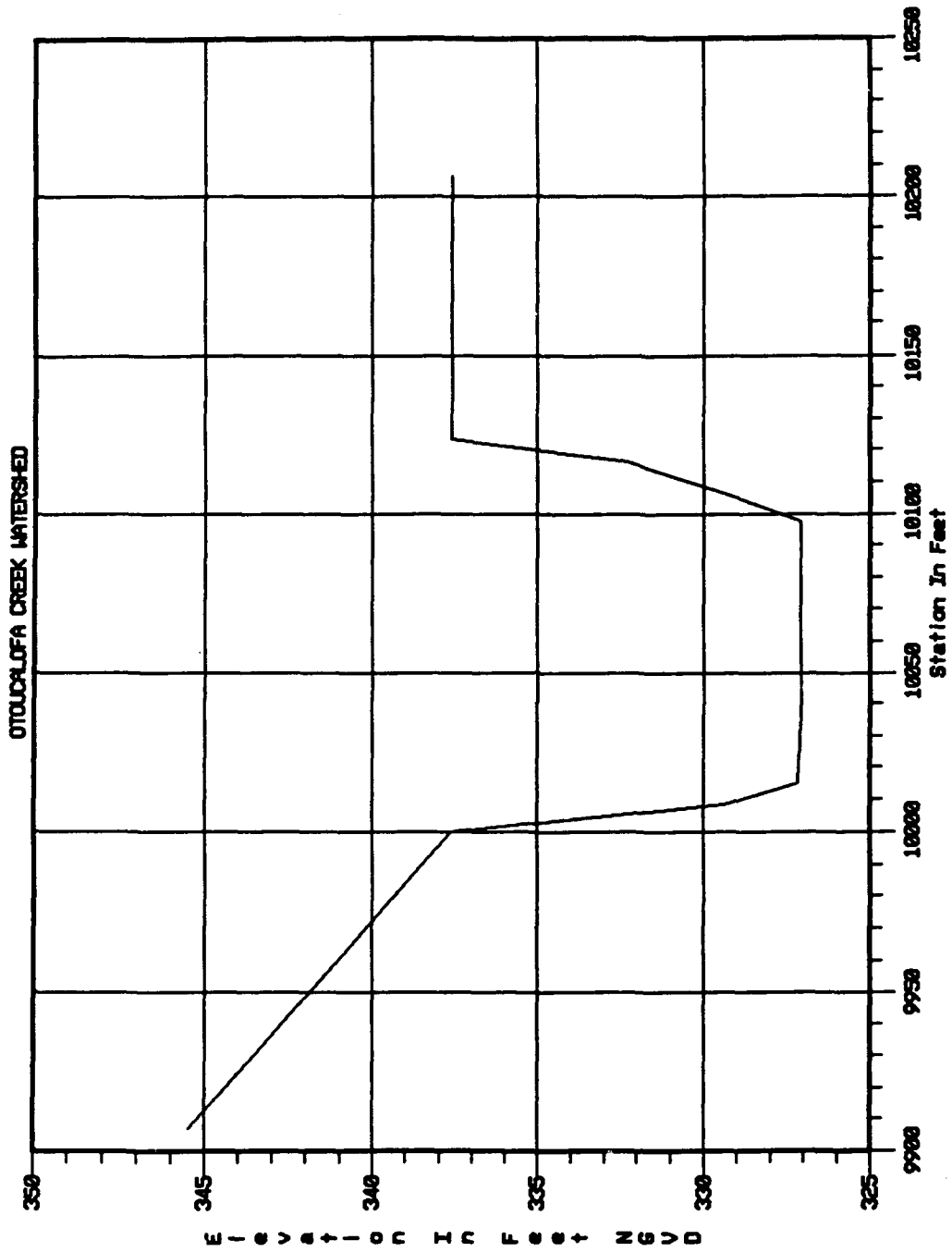


Plate C202





SMITH CREEK 1985 XSEC 2175



SMITH CREEK 1985 XSEC 3700

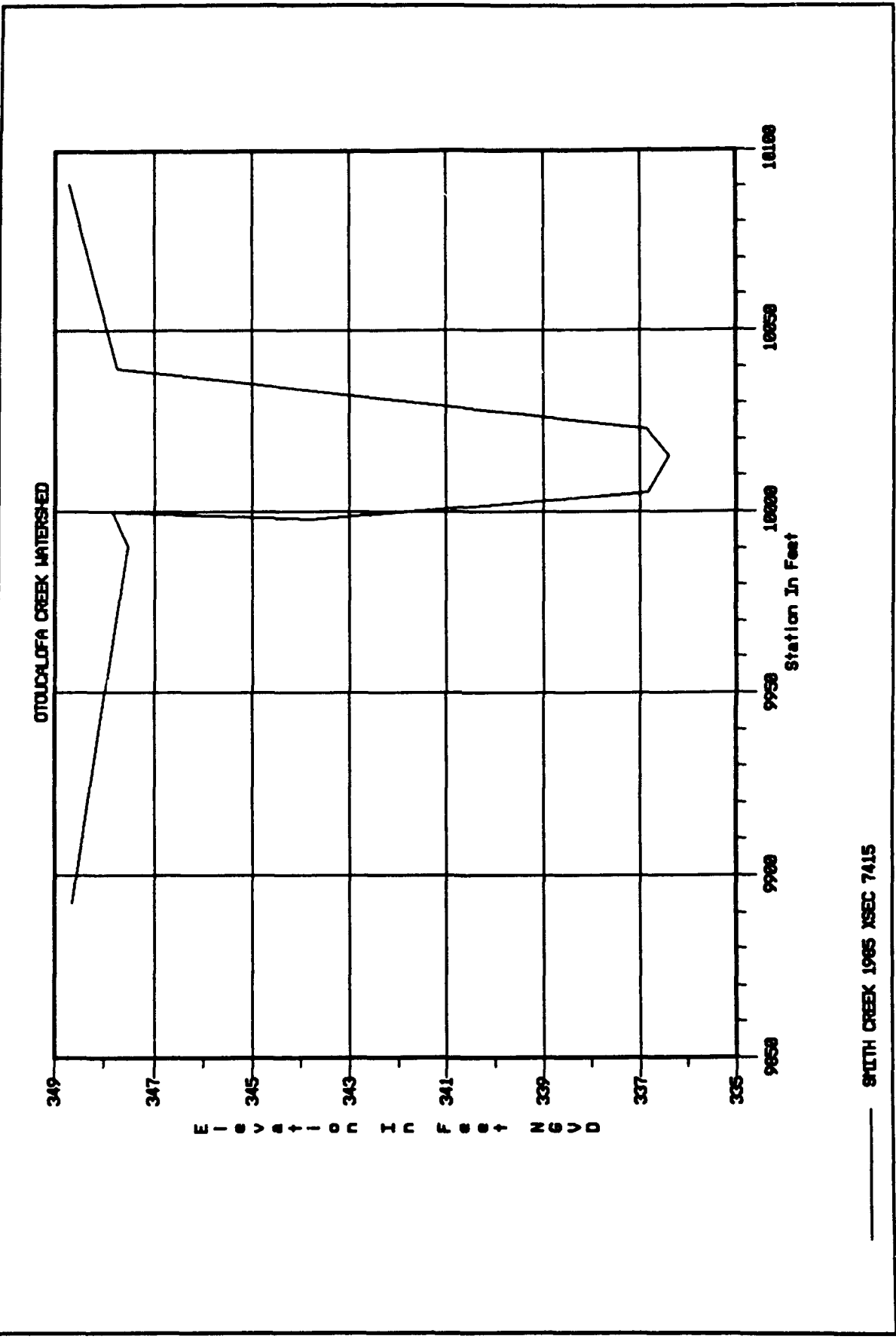
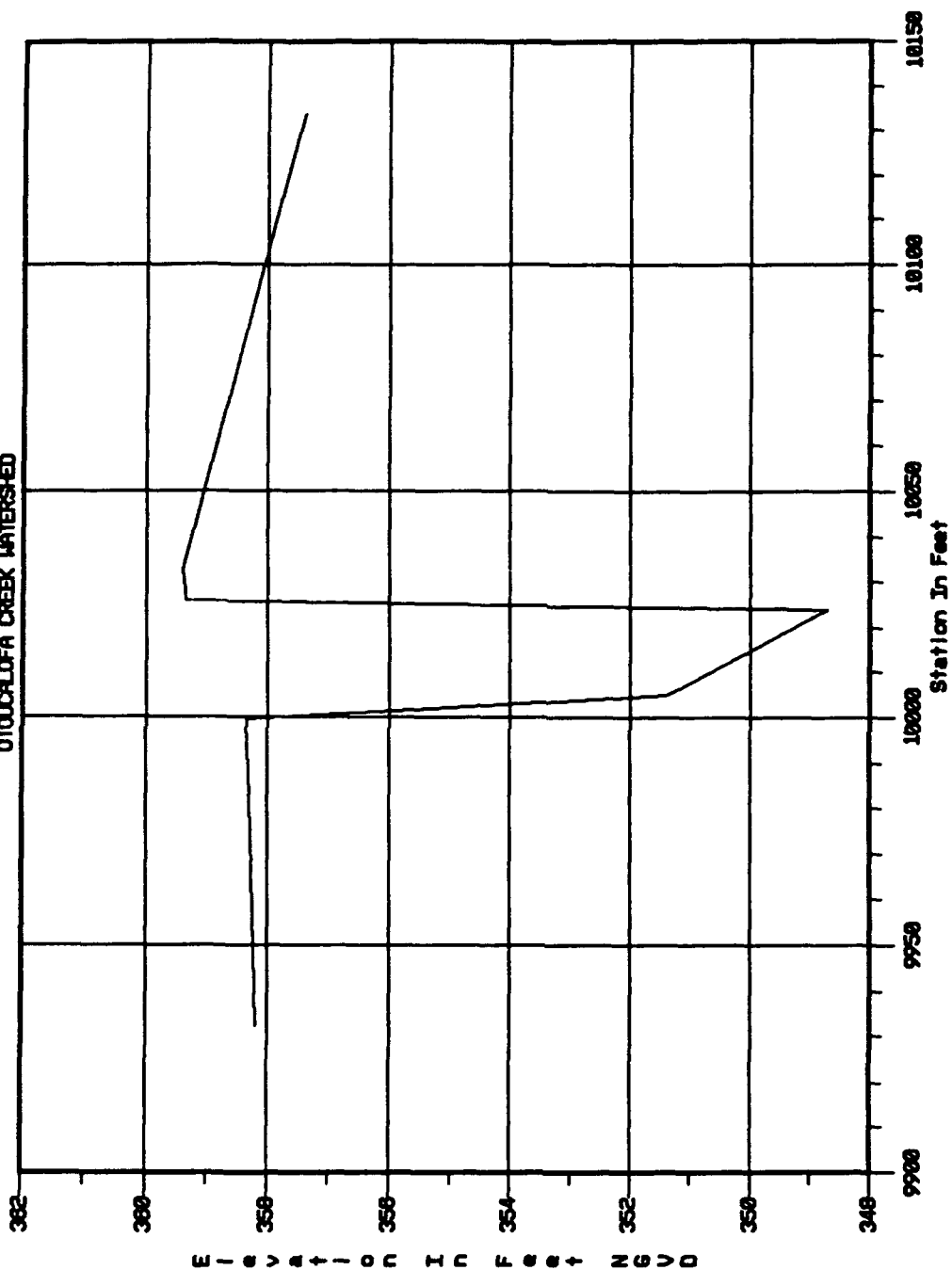


Plate C206

# OTOUCHLOFA CREEK WATERSHED



SMITH CREEK 1985 XSEC 11000

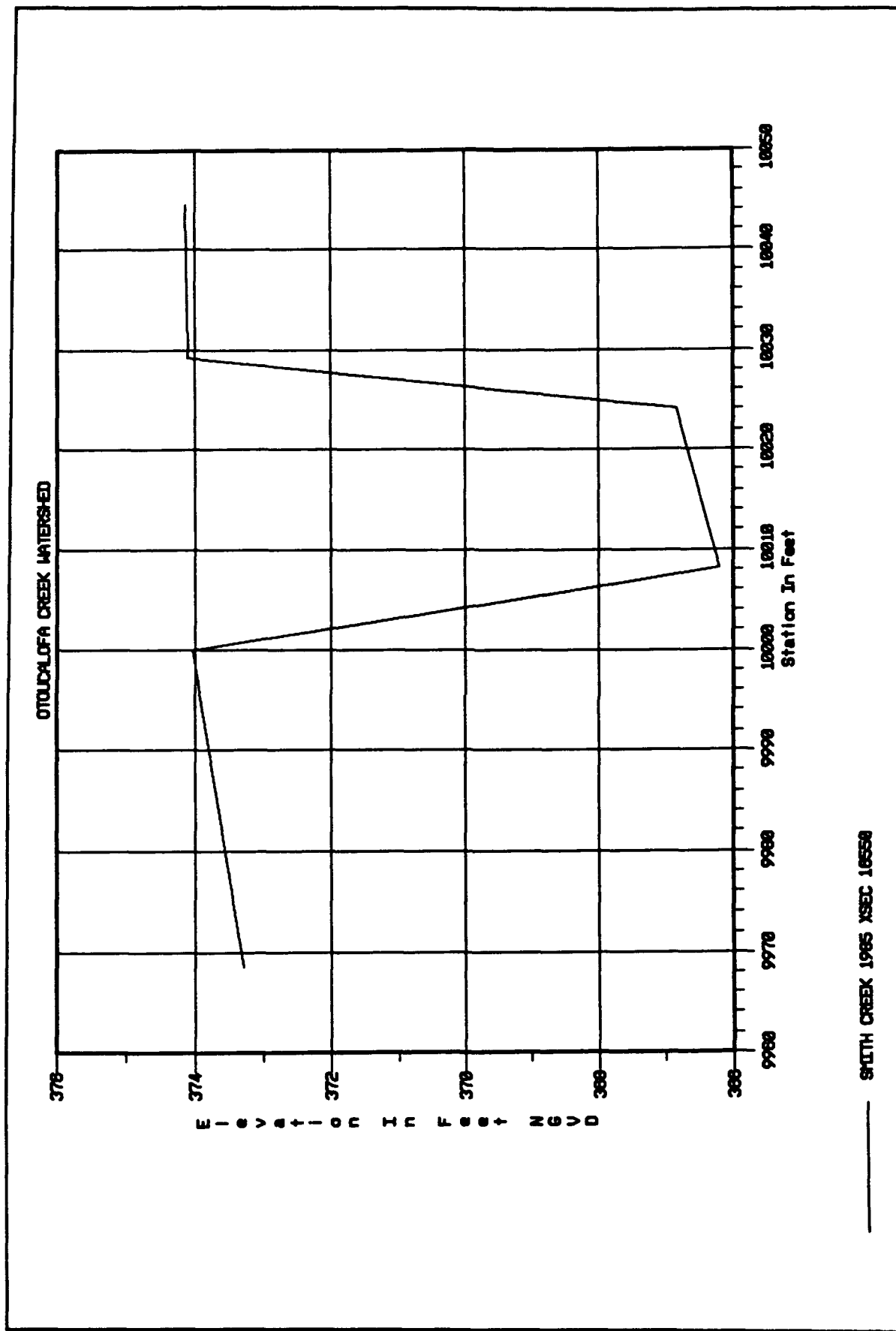
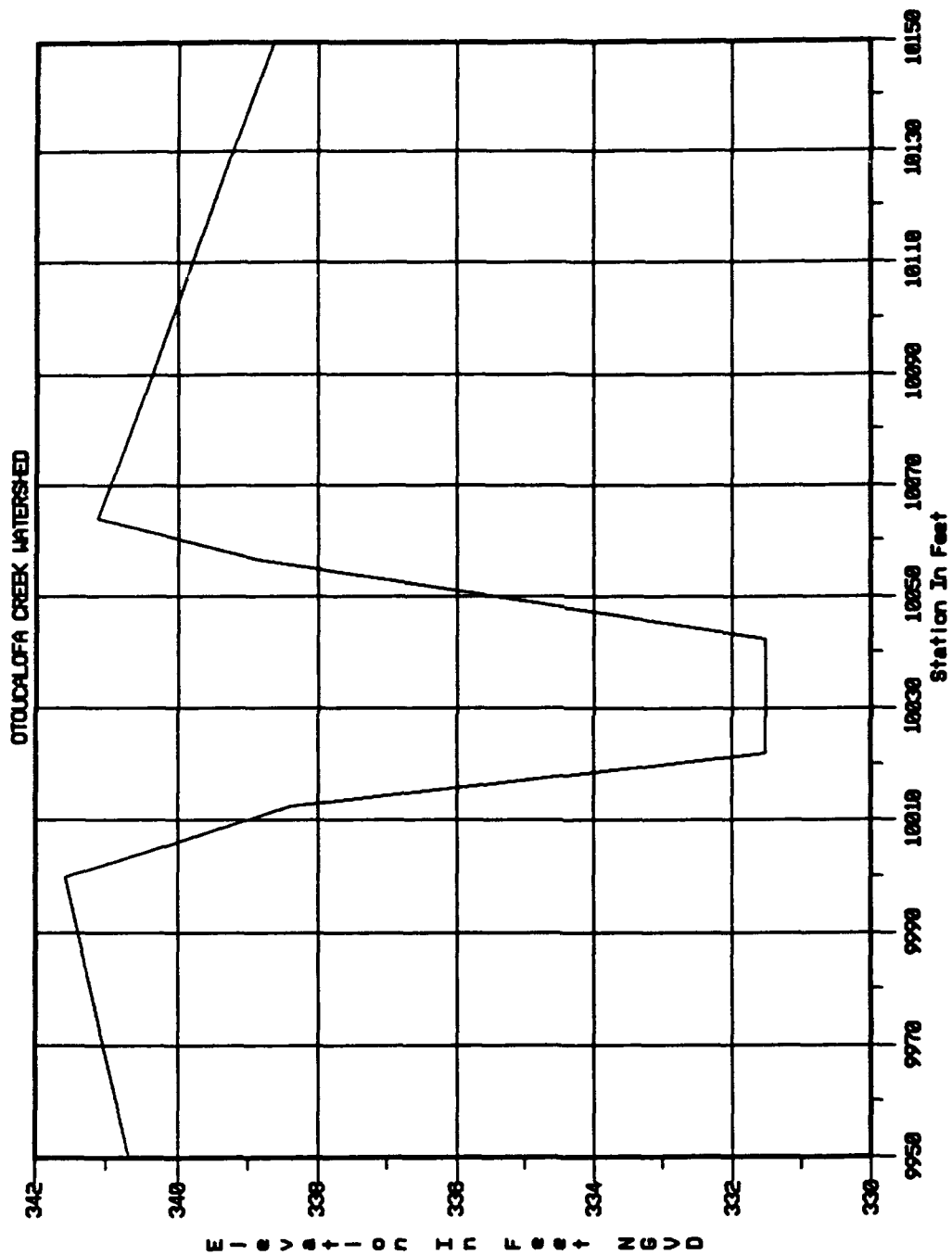


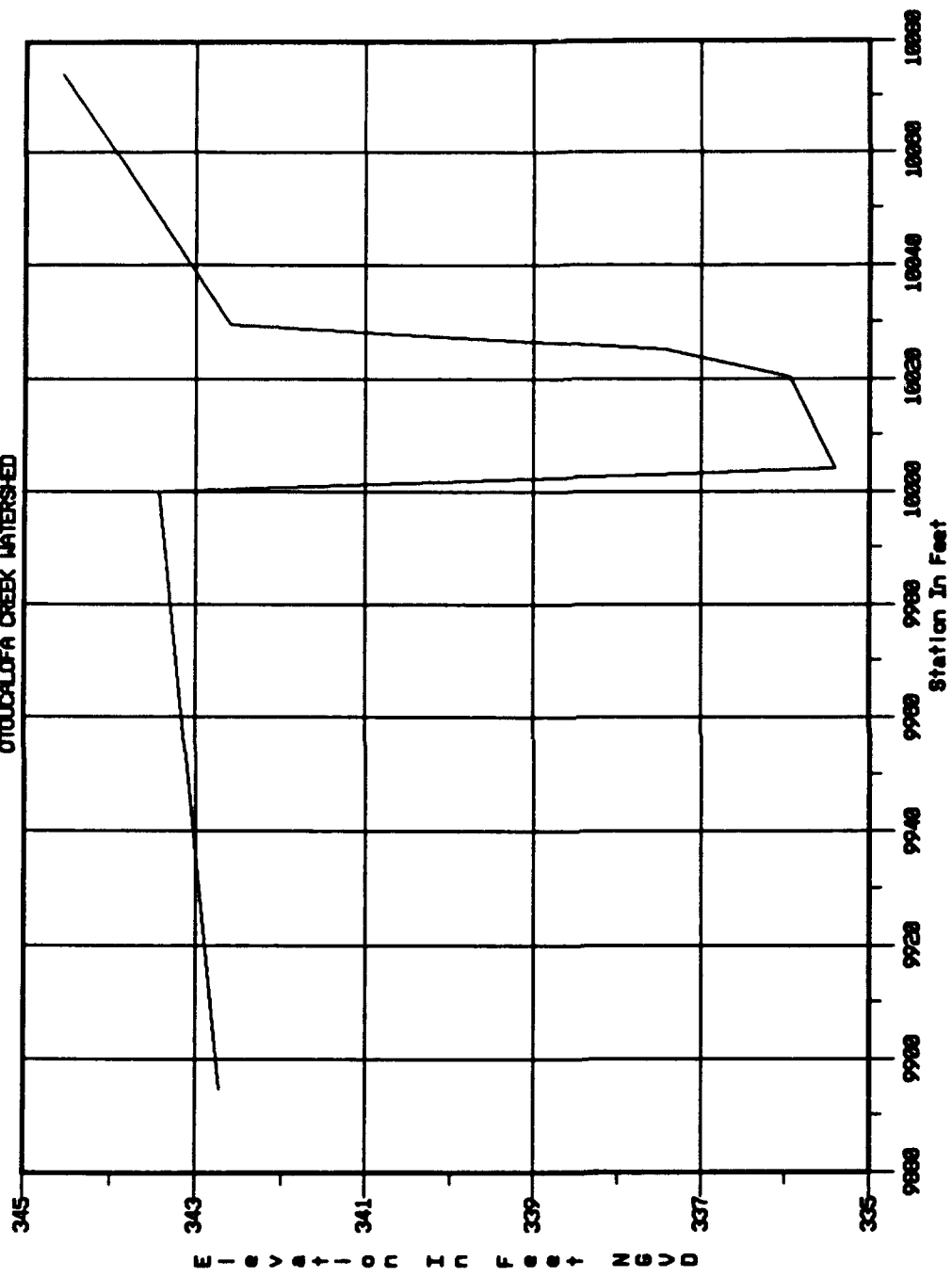
Plate C208



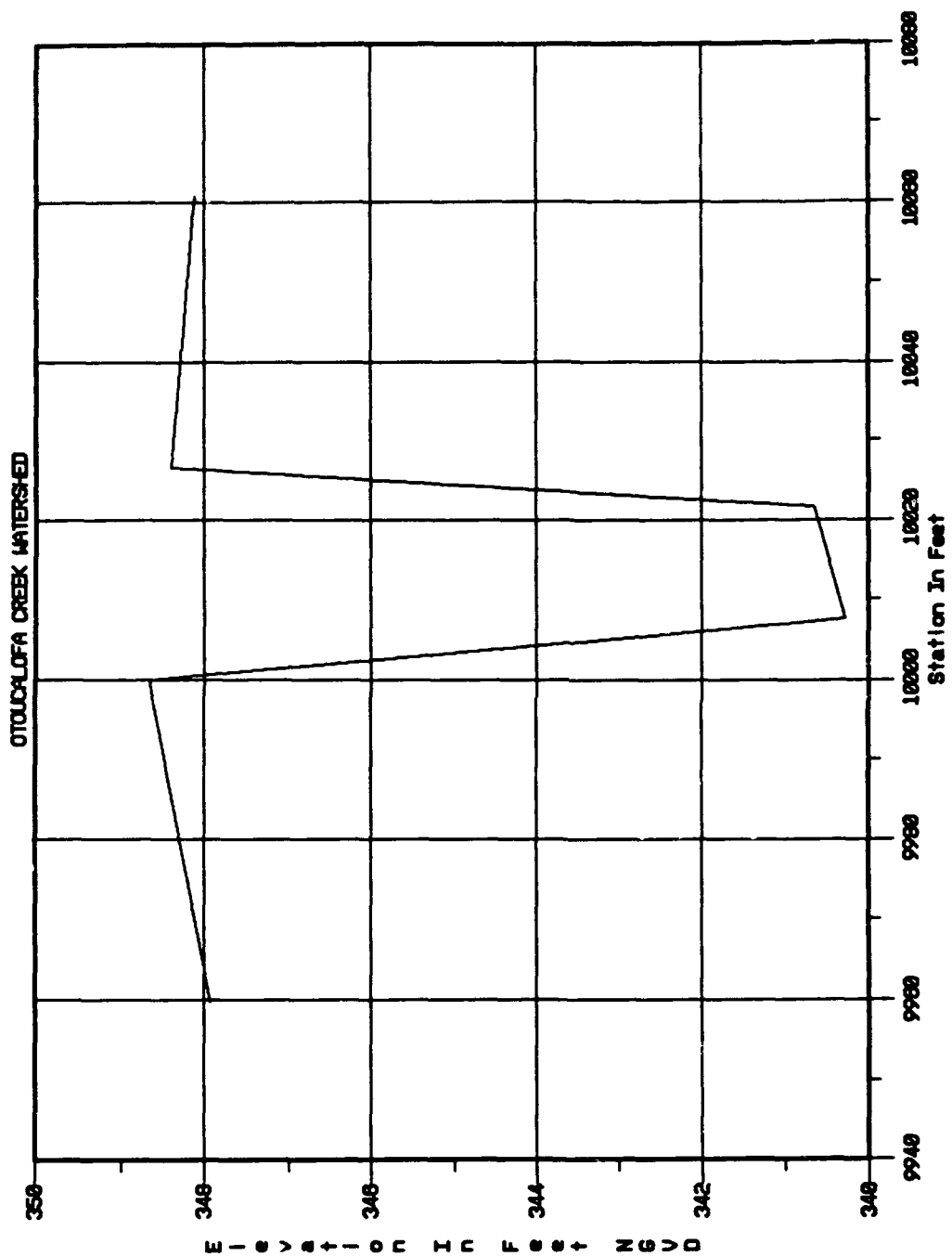
—— HANA CREEK 1985 XSEC 3898



OTOLUCHLOFA CREEK WATERSHED



— HANA CREEK 1985 XSEC 5200



HANNA CREEK 1985 XSEC 0175

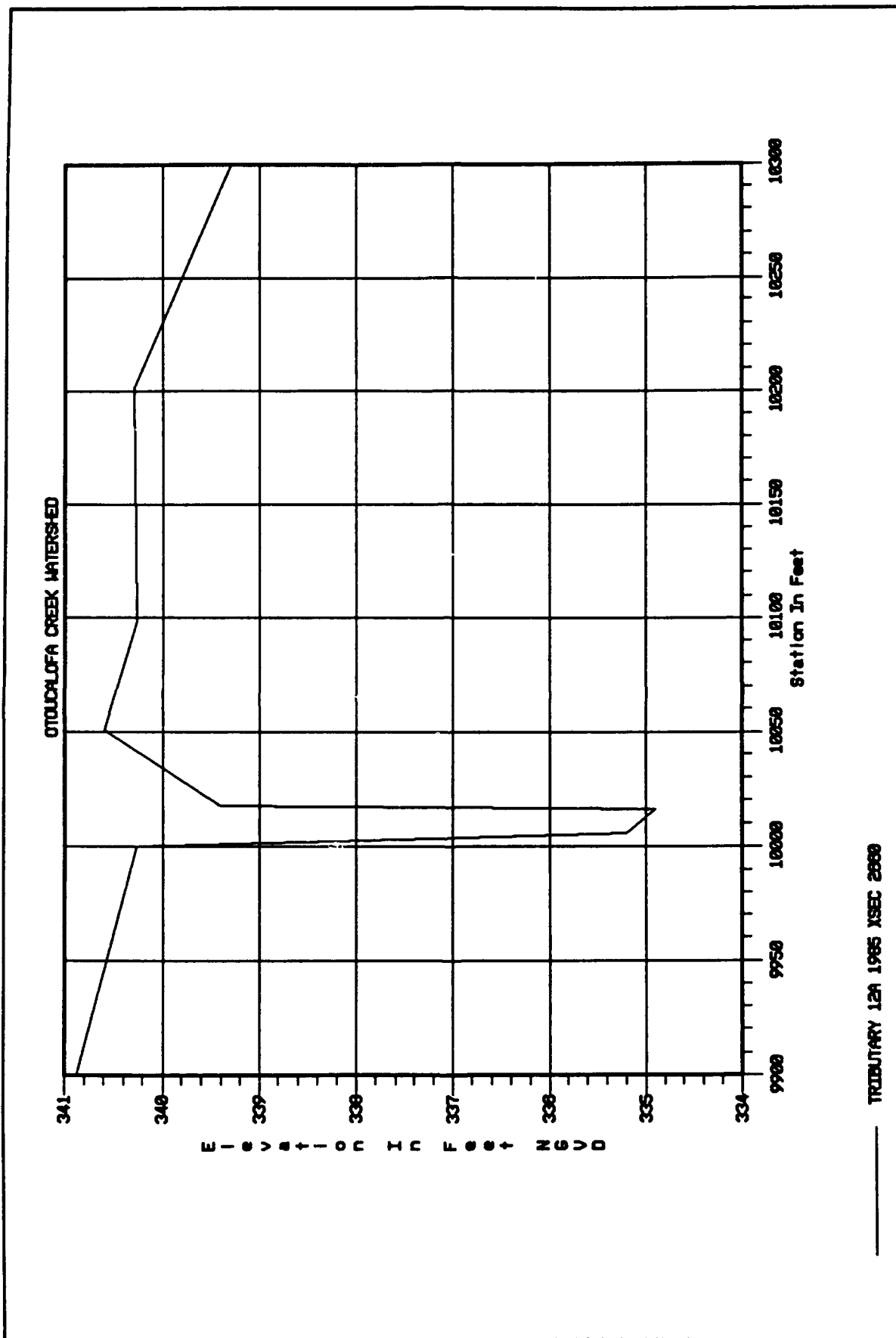
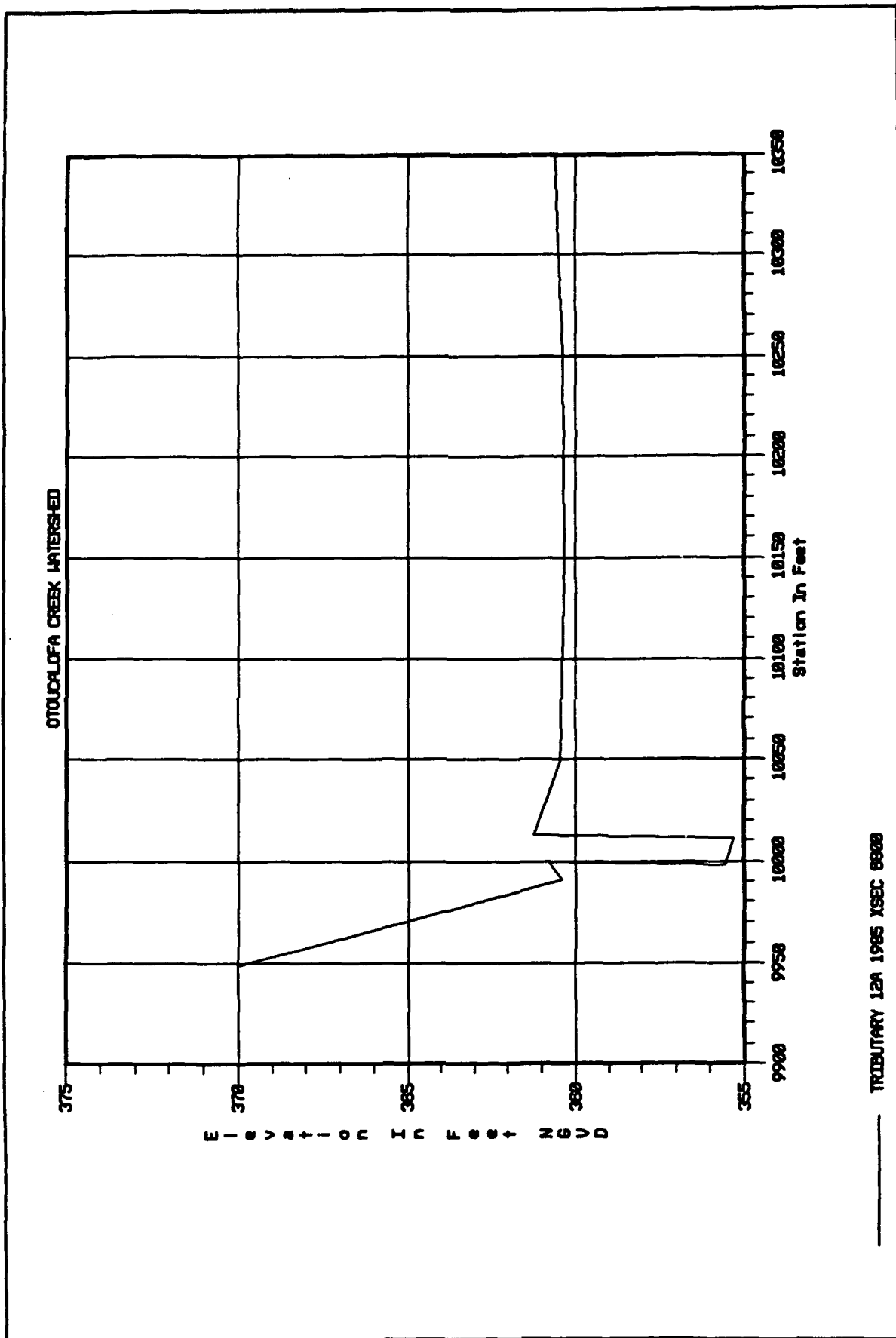


Plate C212



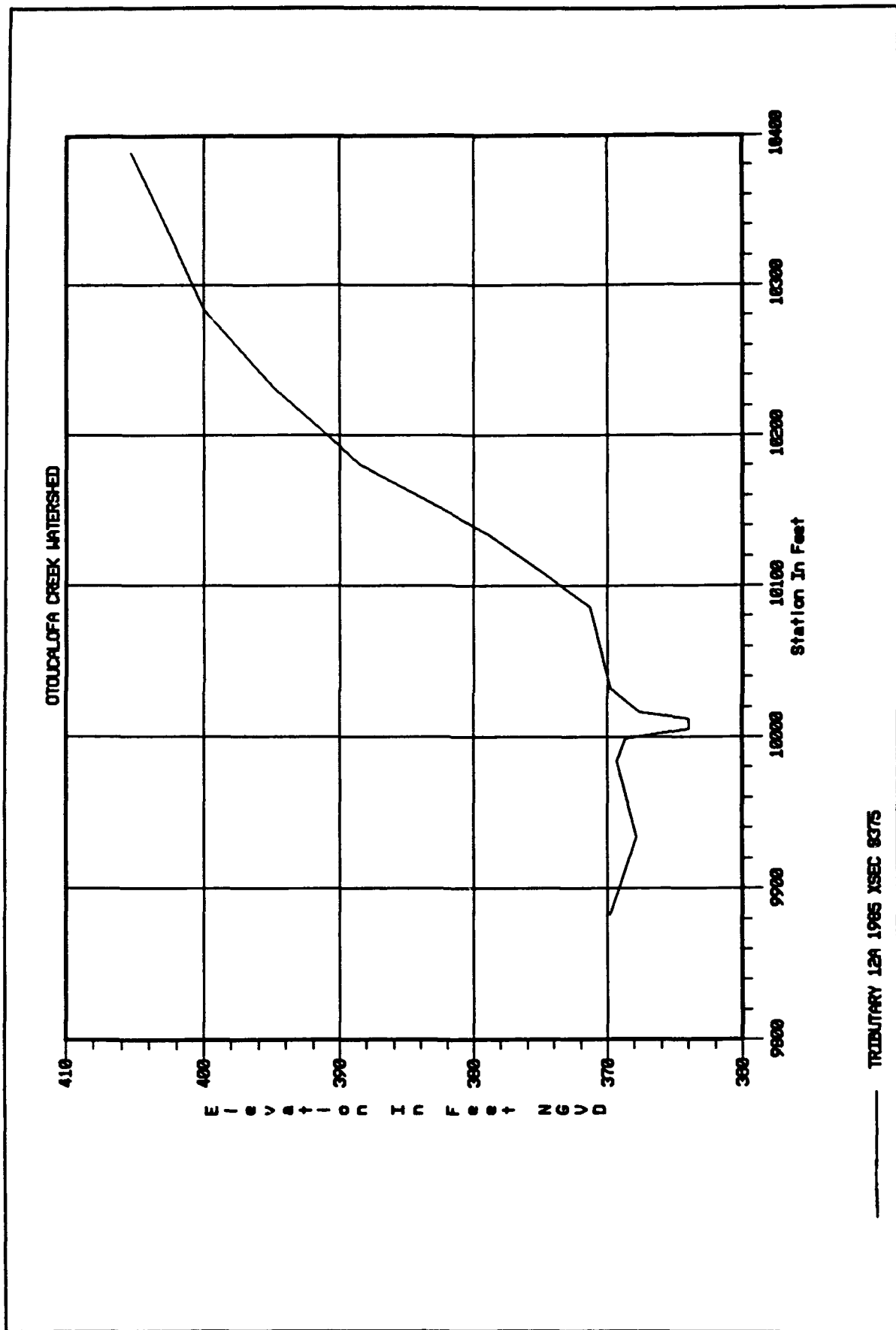
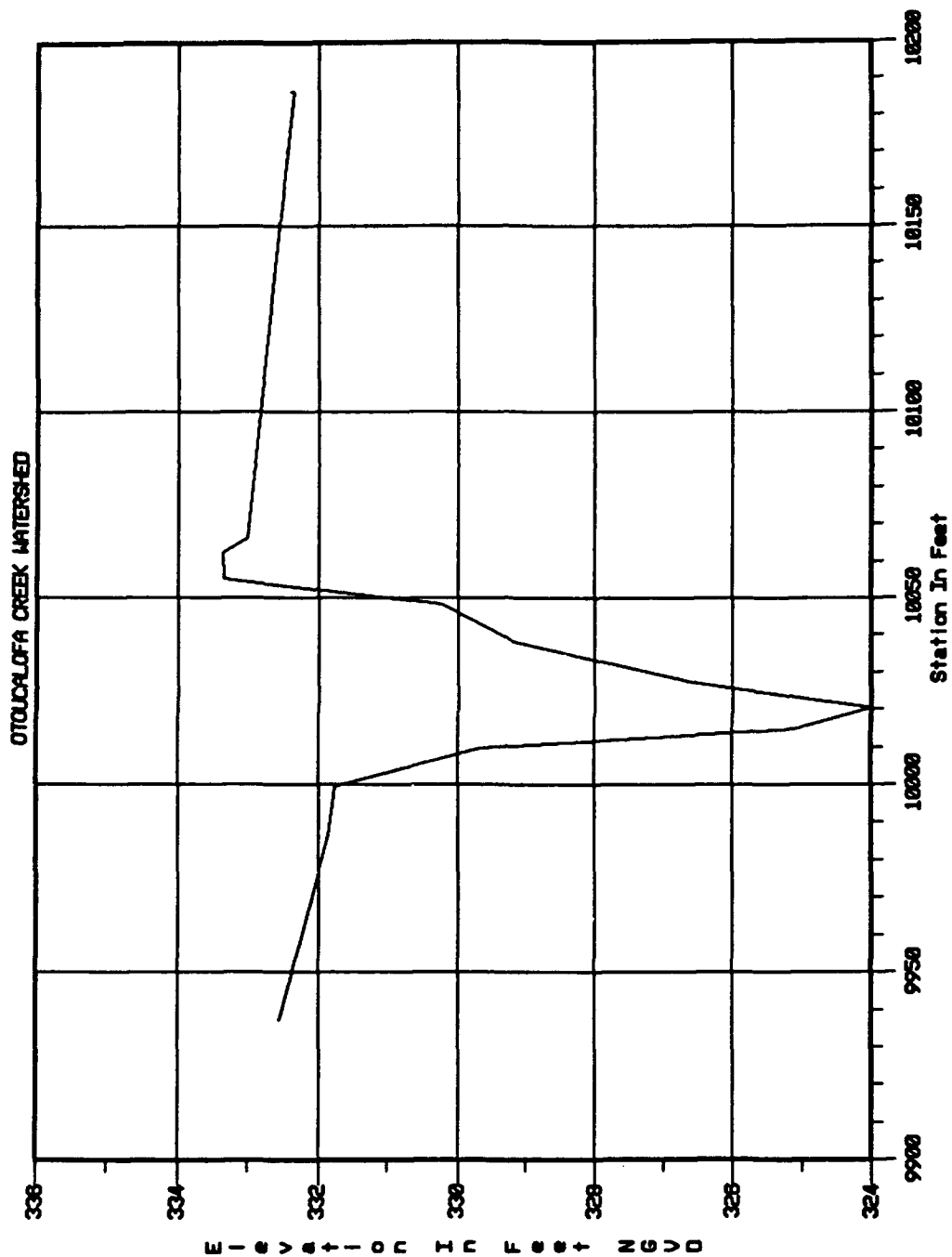
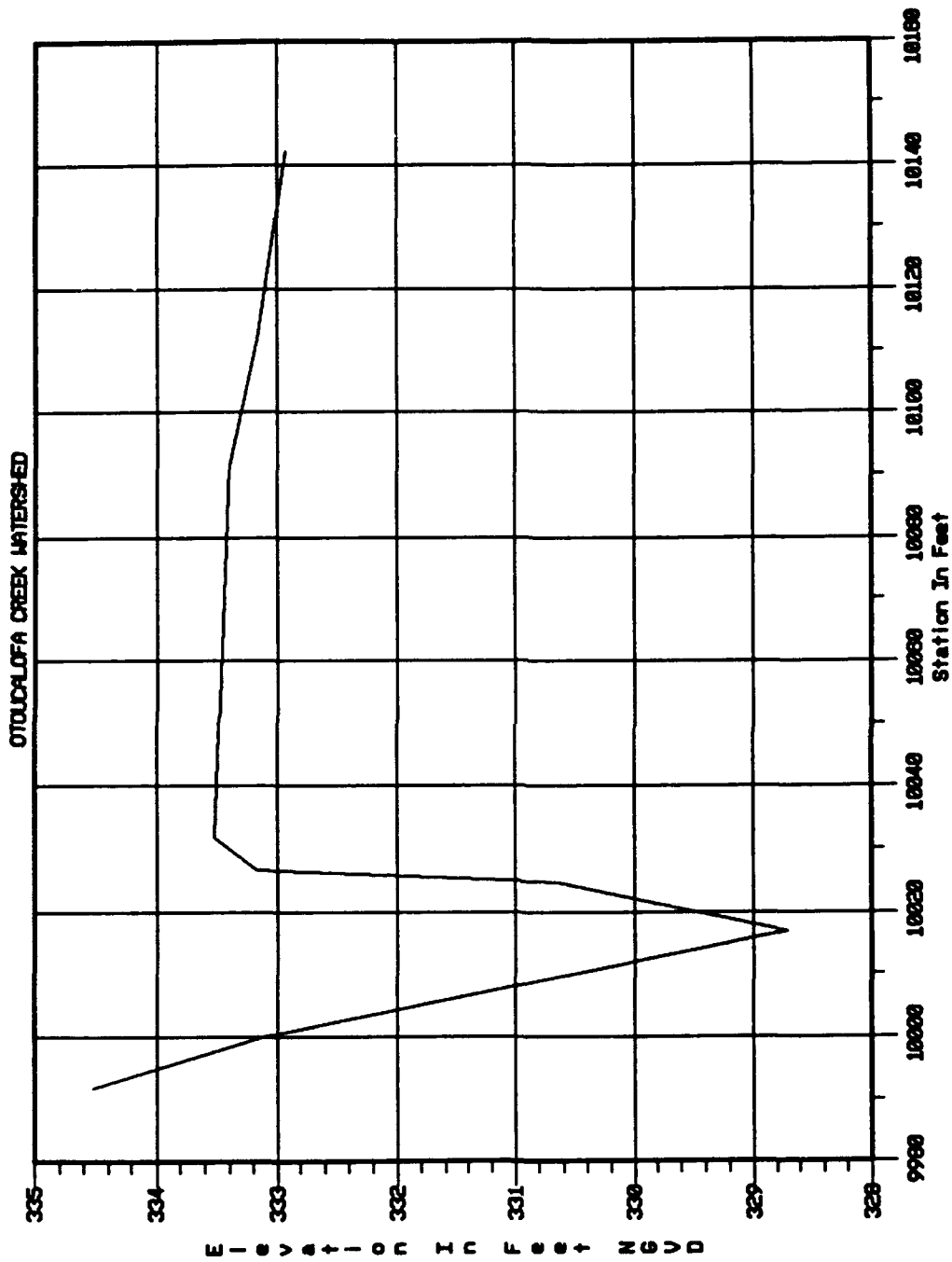


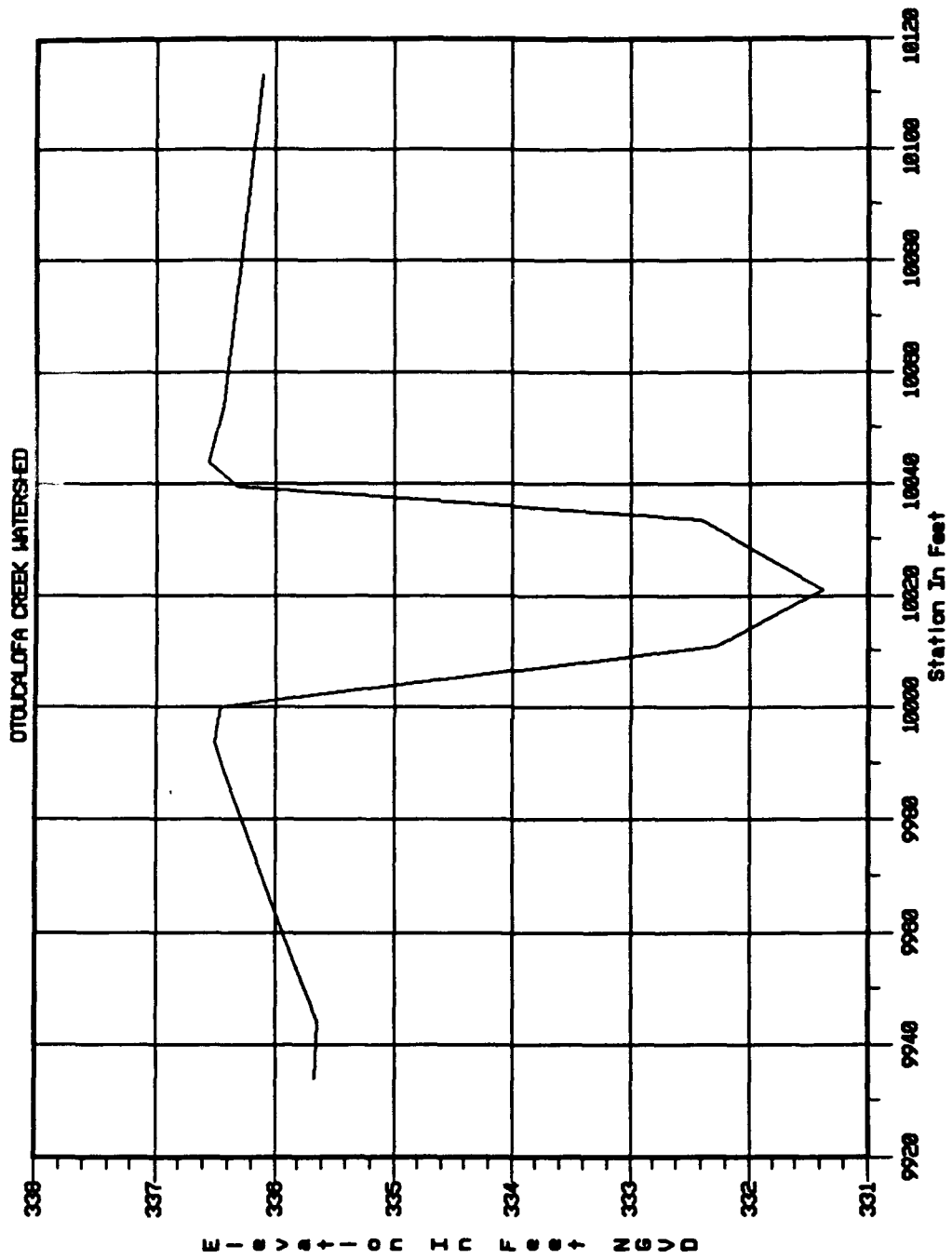
Plate C214



— SARTER CREEK 1992 XSEC 3000



———— SARTER CREEK 1992 XSEC 0000



—— SARTER CREEK 1992 XSEC 9000



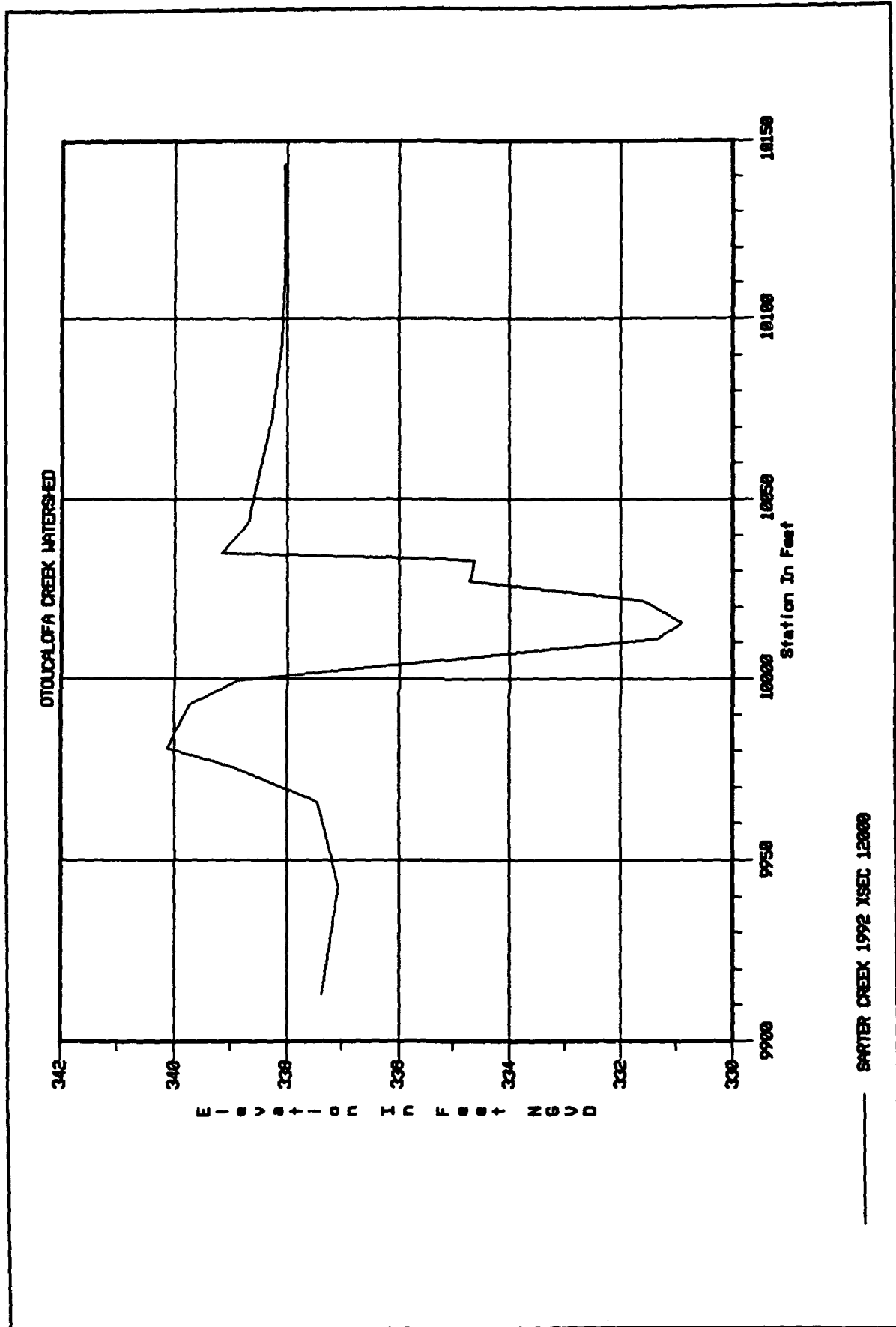
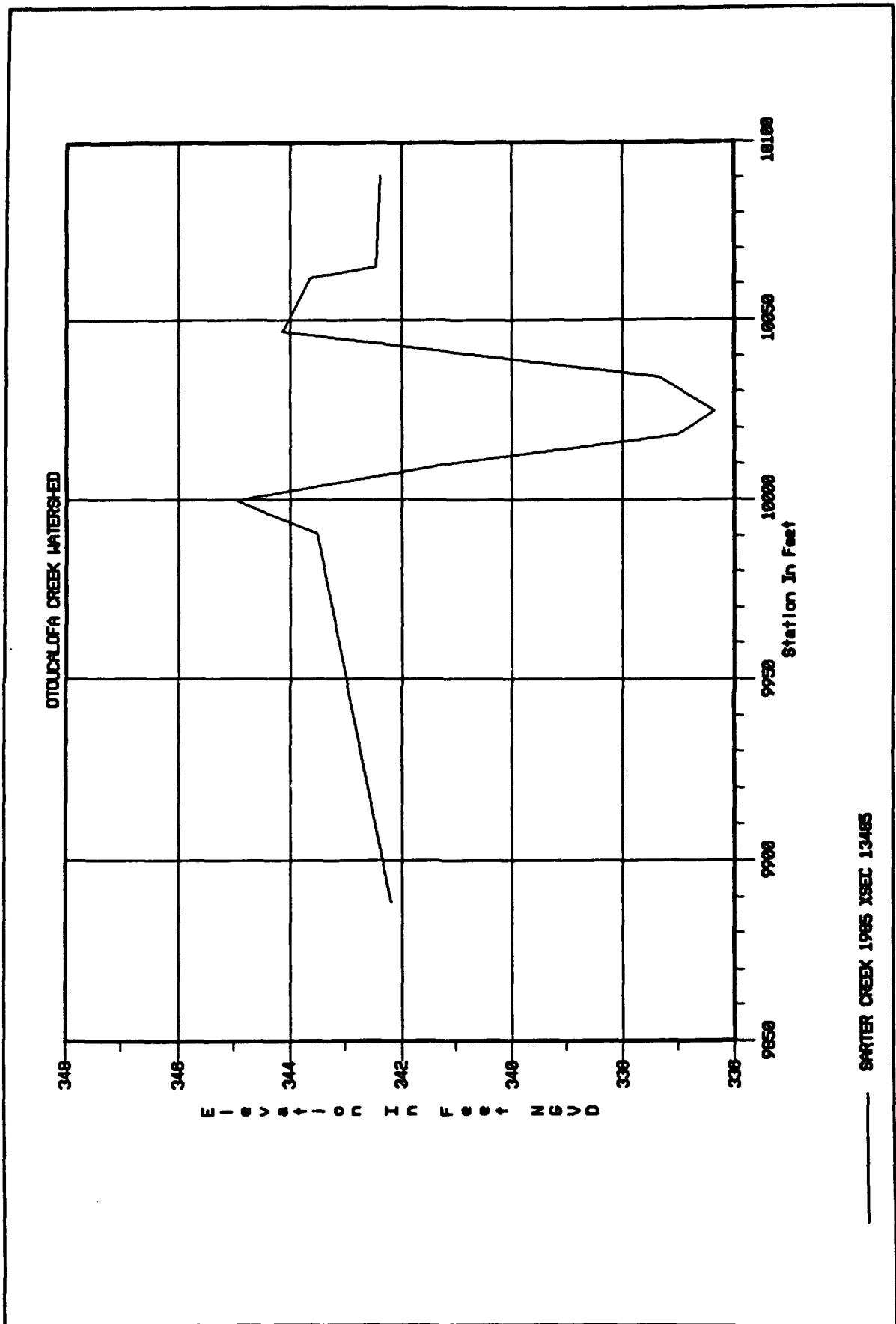


Plate C218



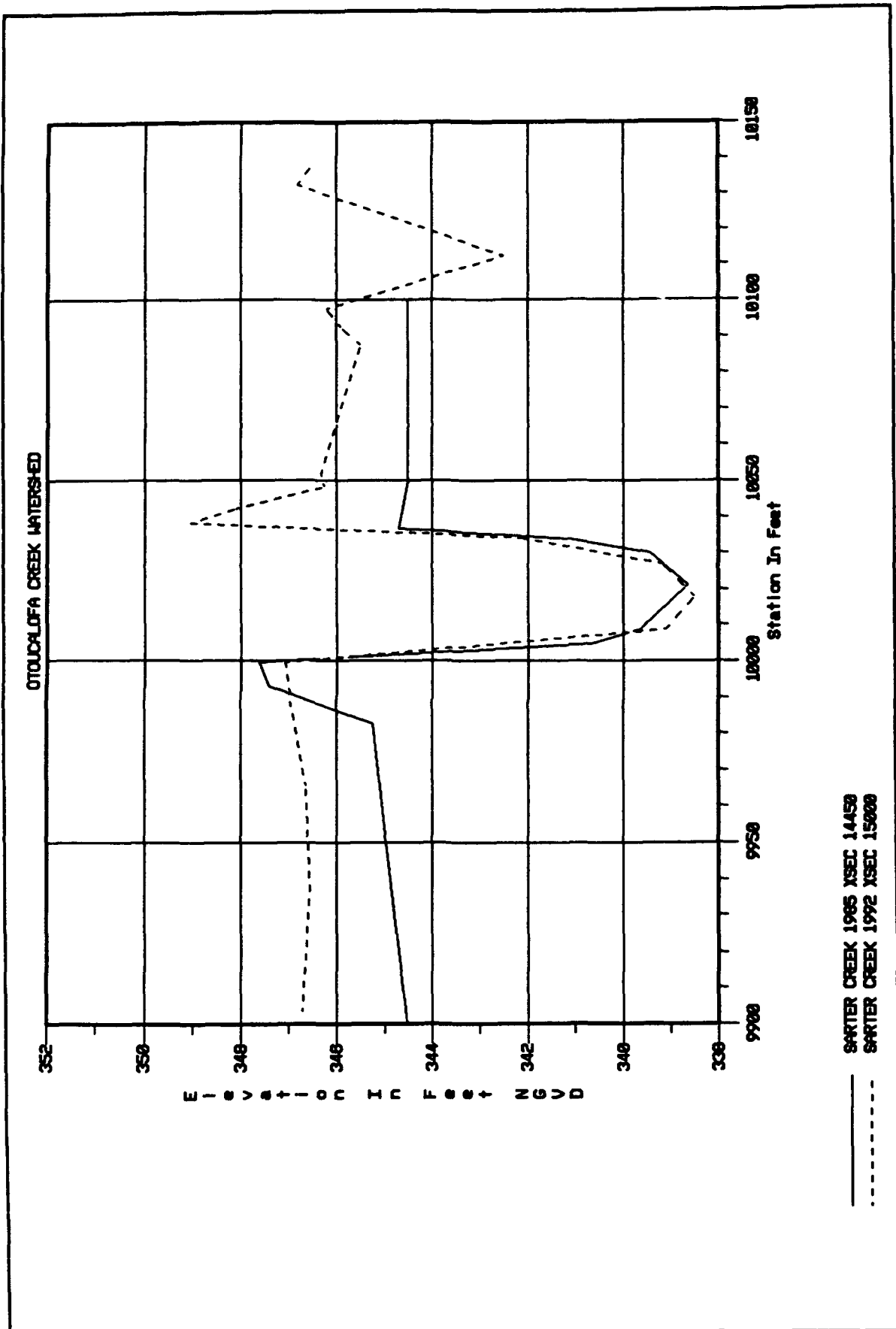
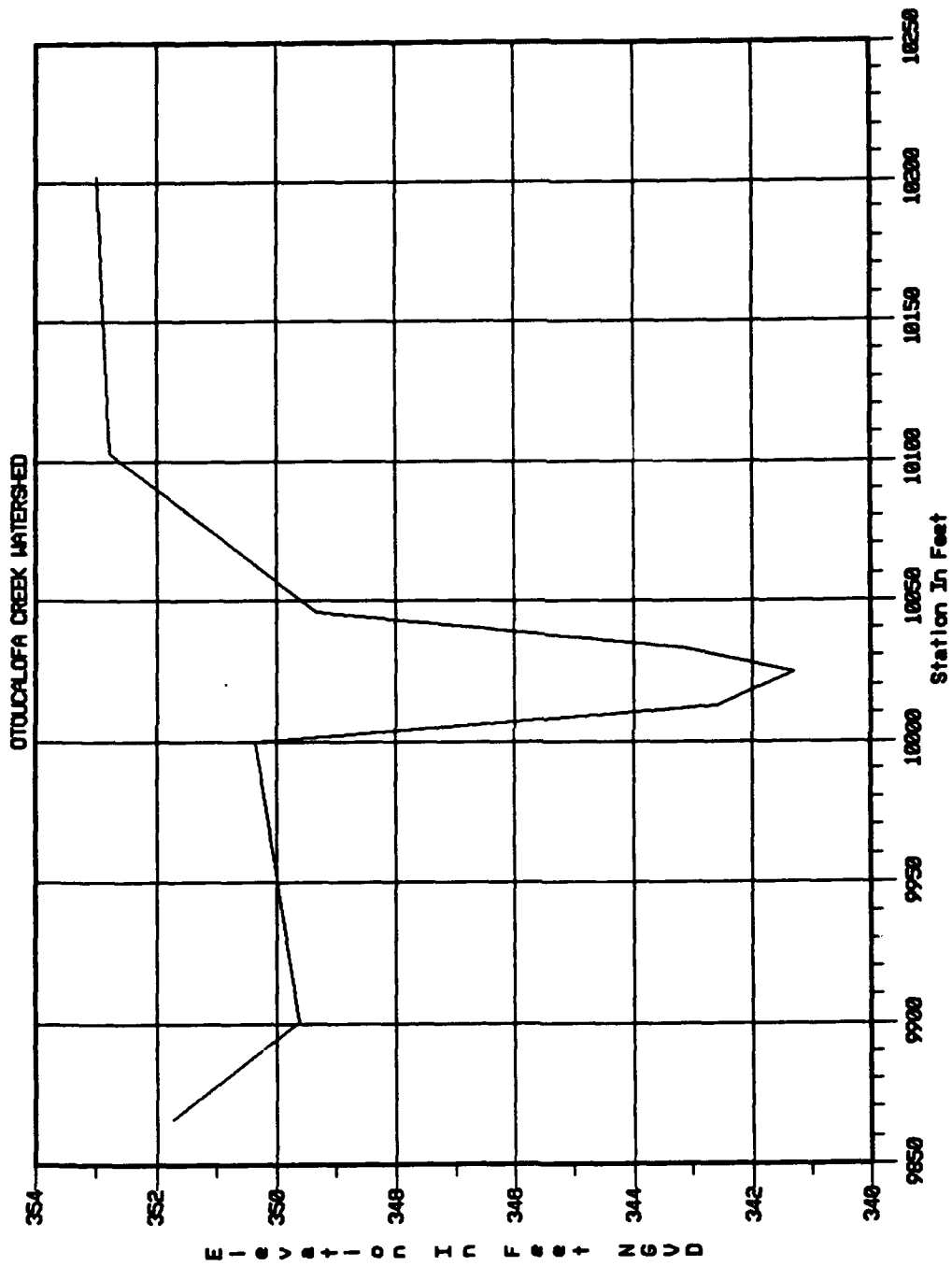


Plate C220



—— SARTER CREEK 1985 XSEC 18335

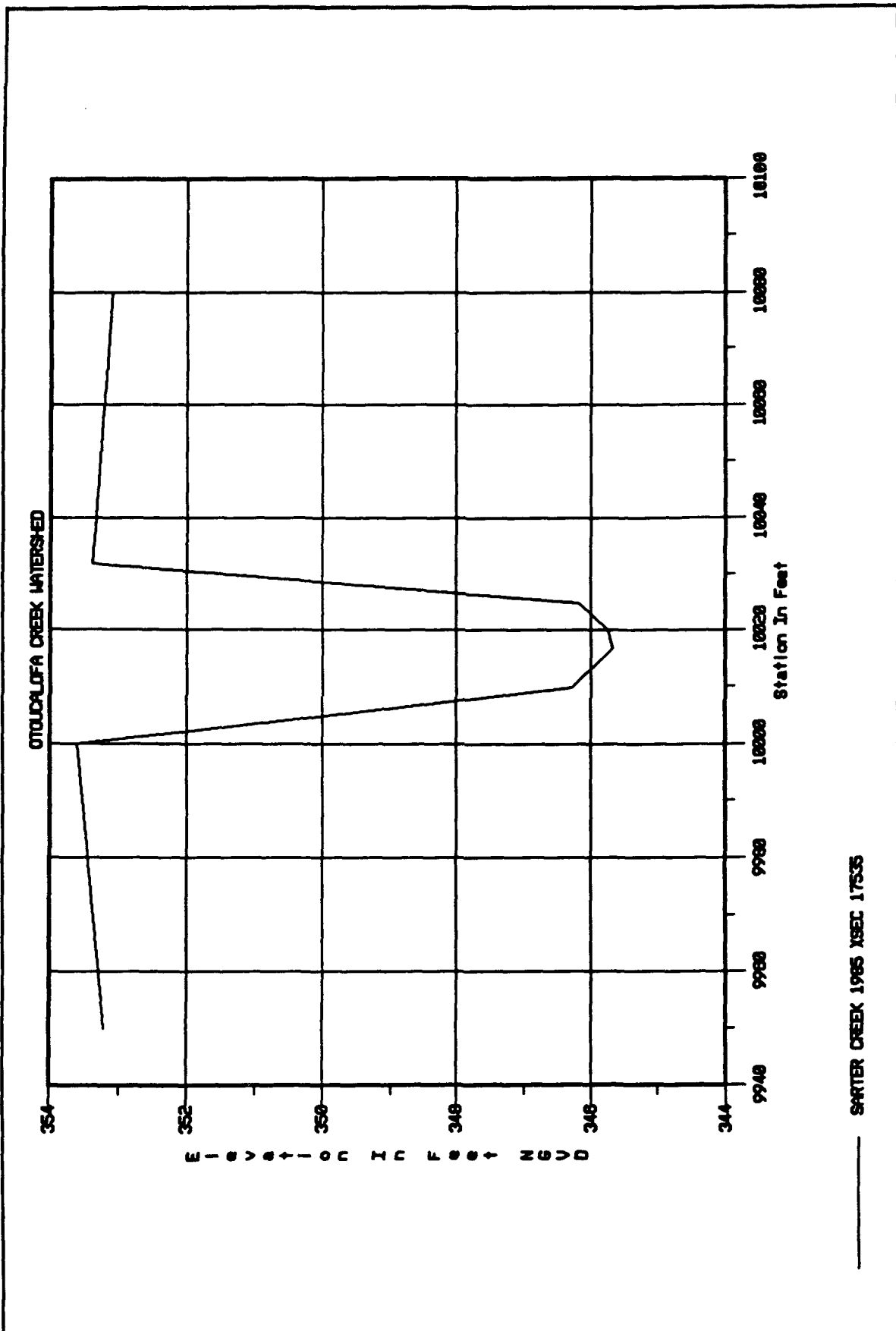
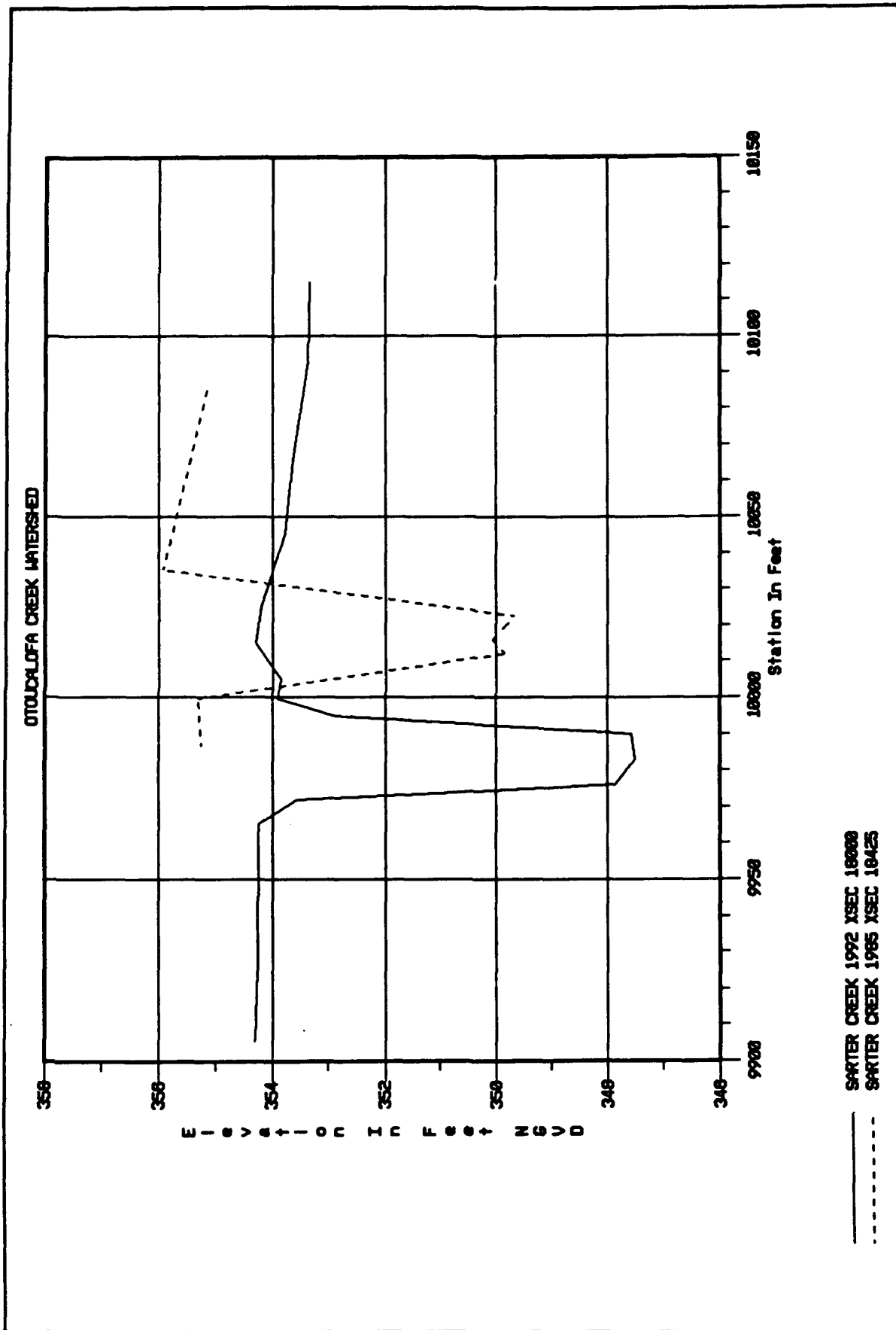
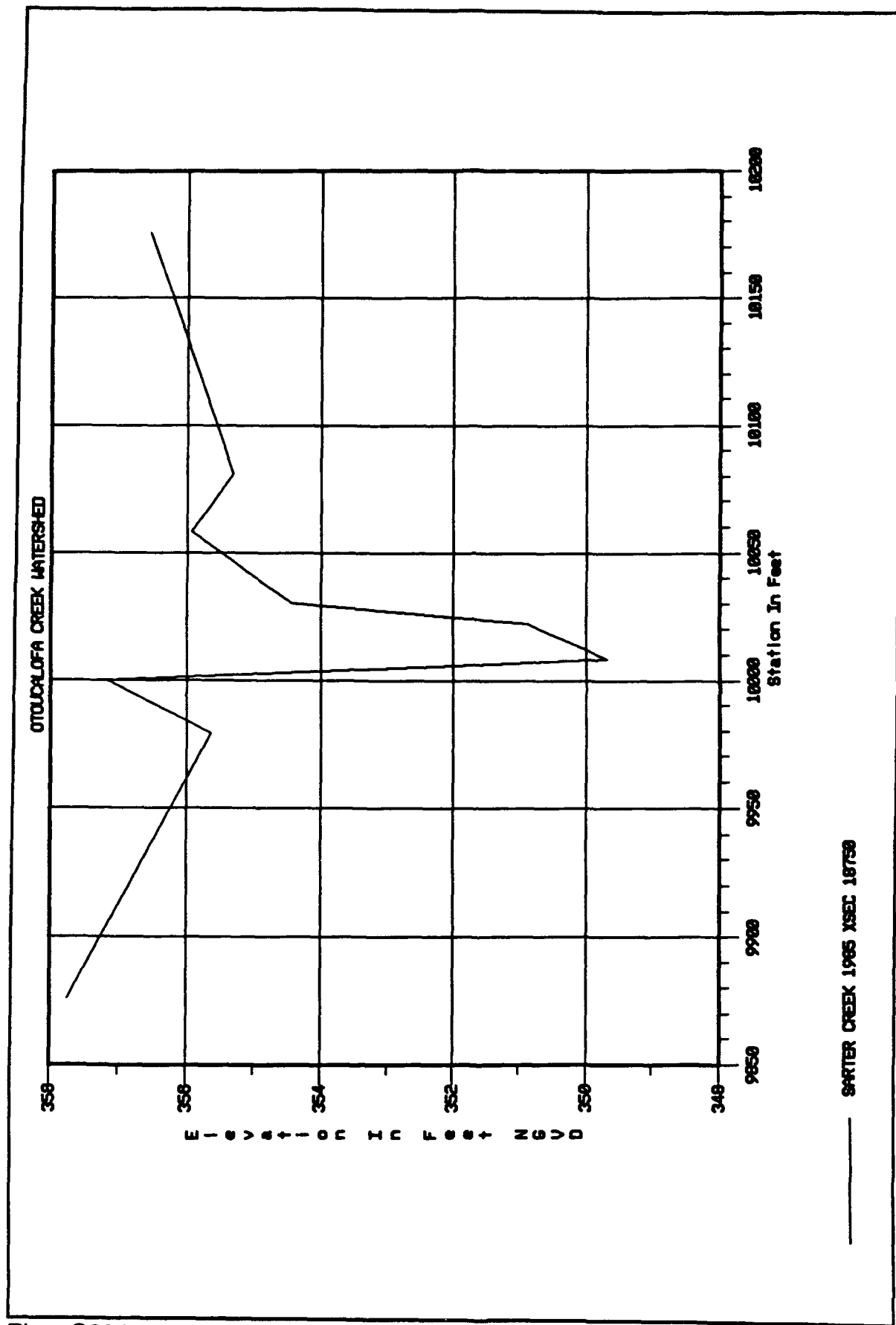
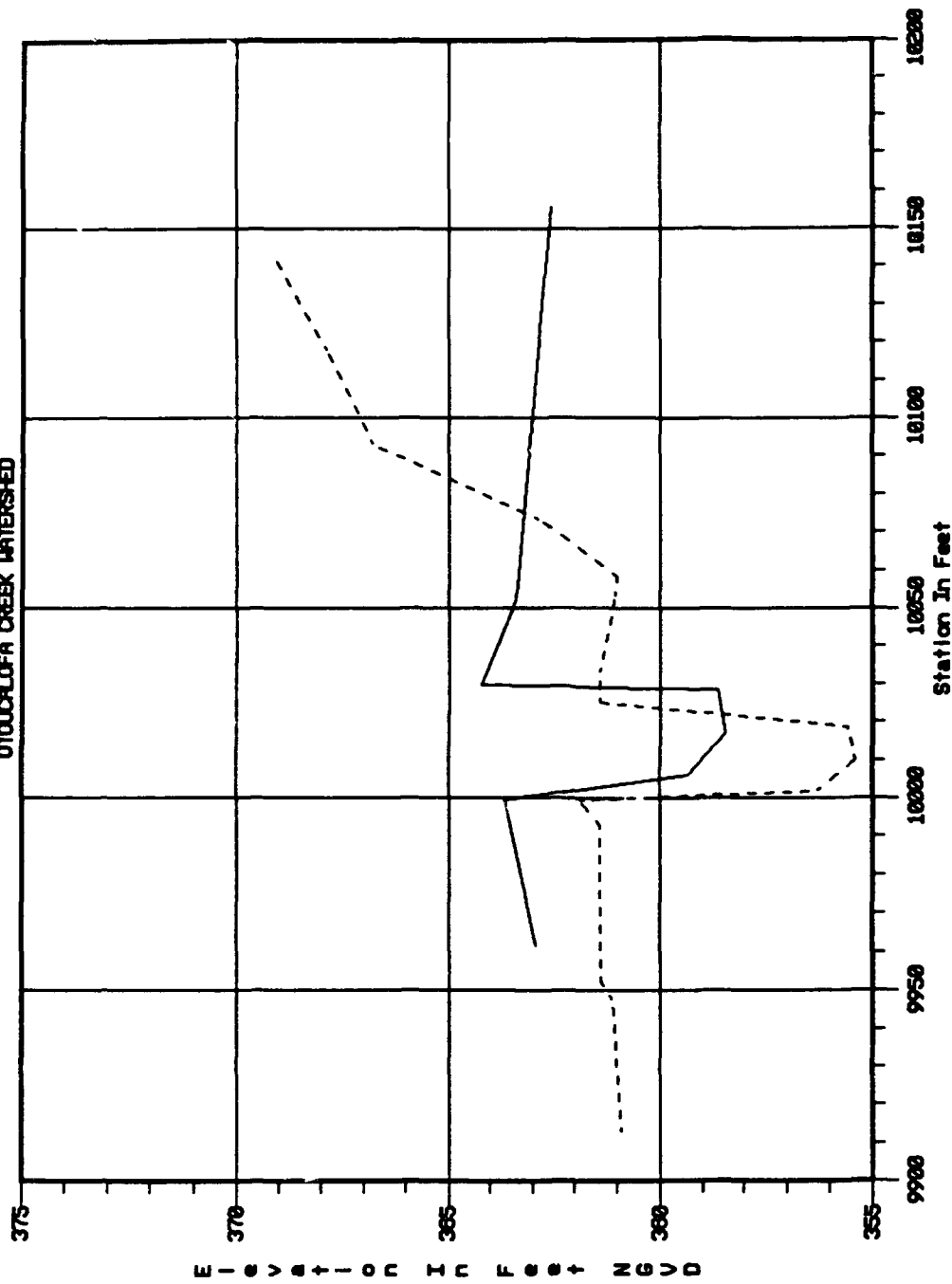


Plate C222





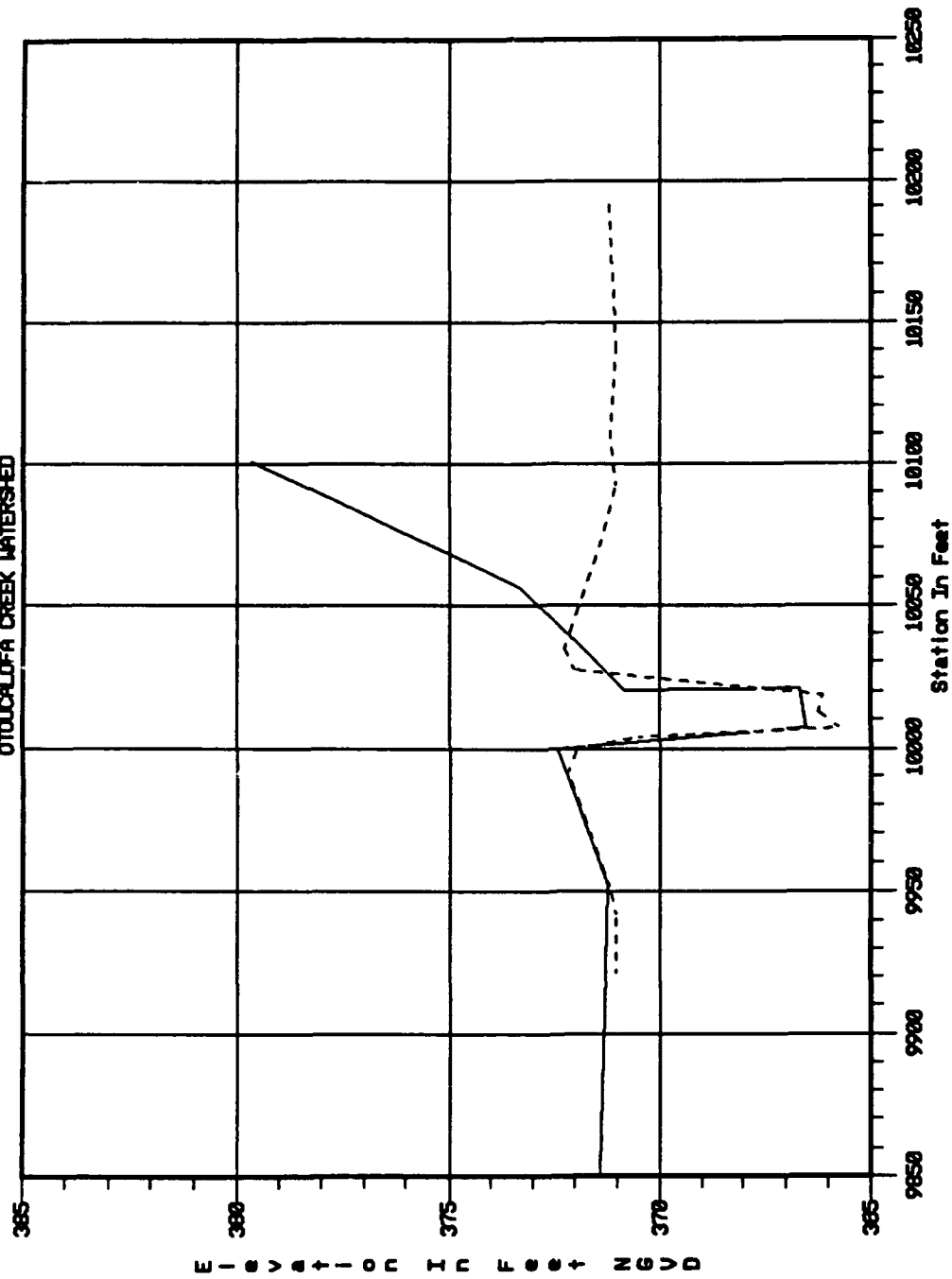
OTOLCALOFA CREEK WATERSHED



— SARTER CREEK 1985 XSEC 21450  
 - - - SARTER CREEK 1992 XSEC 21000

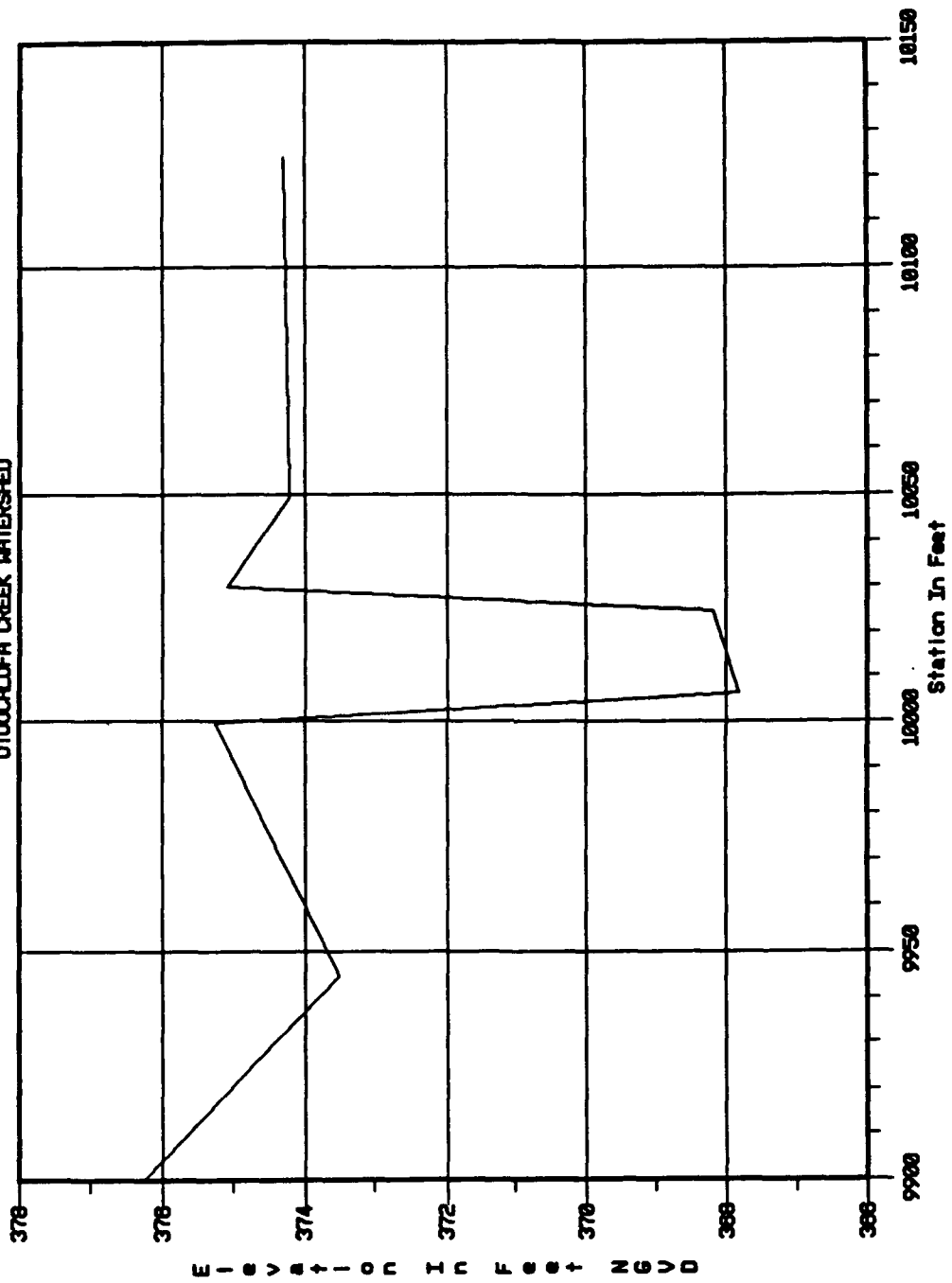


OTOLOXLOFA CREEK WATERSHED



— SARTTER CREEK 1985 XSEC 24150  
 - - - SARTTER CREEK 1992 XSEC 24000

OTOLUCKLOFA CREEK WATERSHED



SHARPER CREEK 1965 XSEC 25020

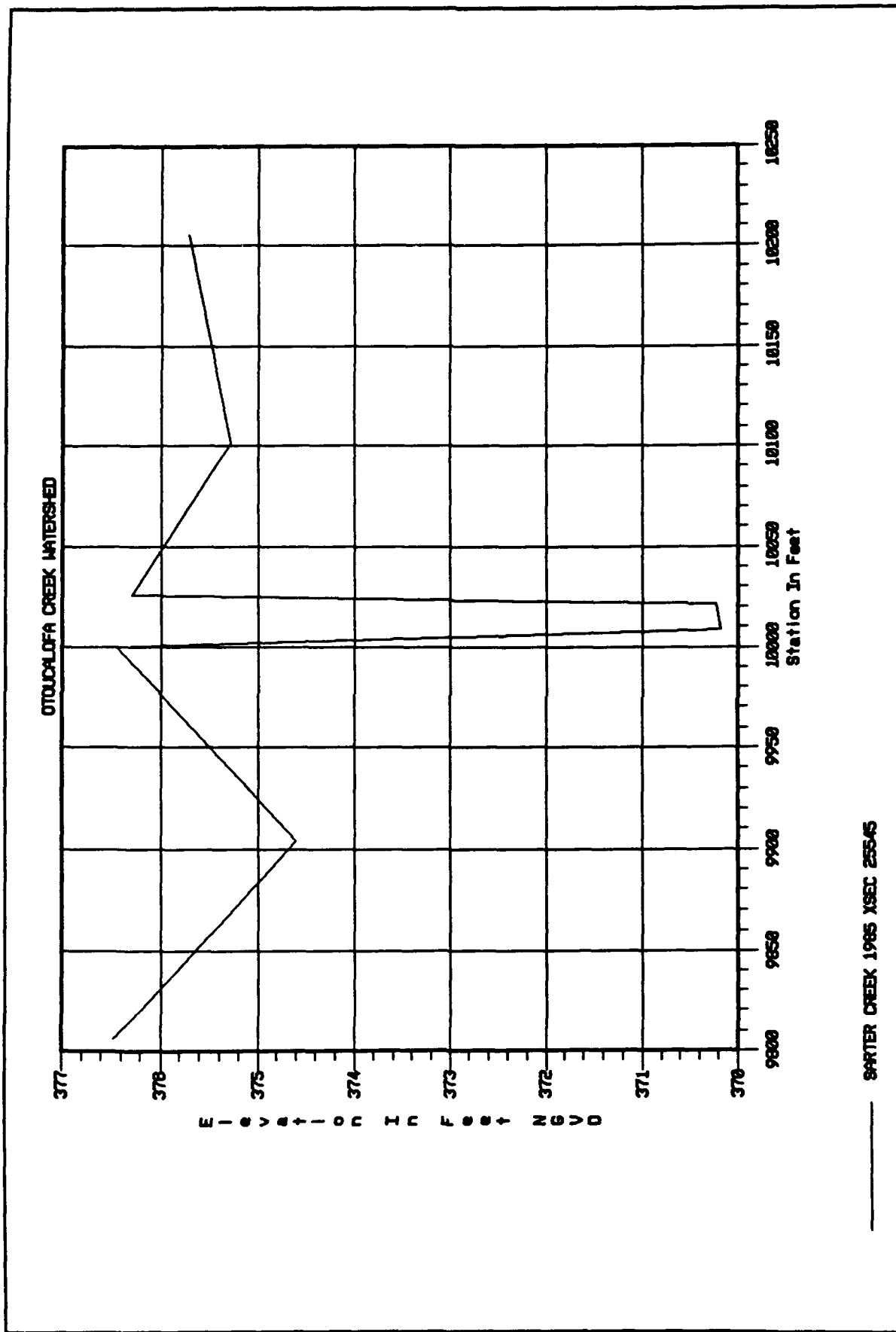
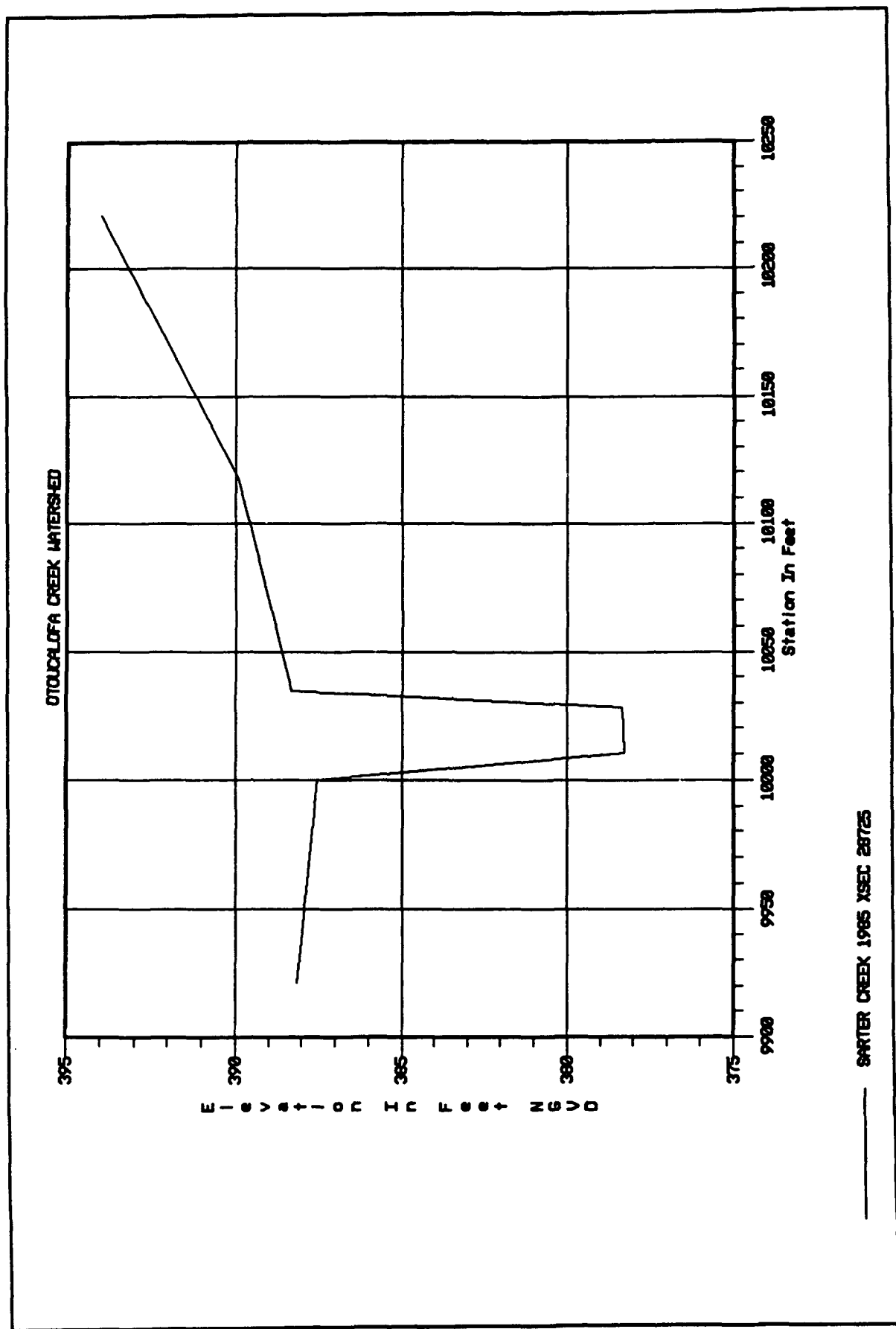


Plate C228



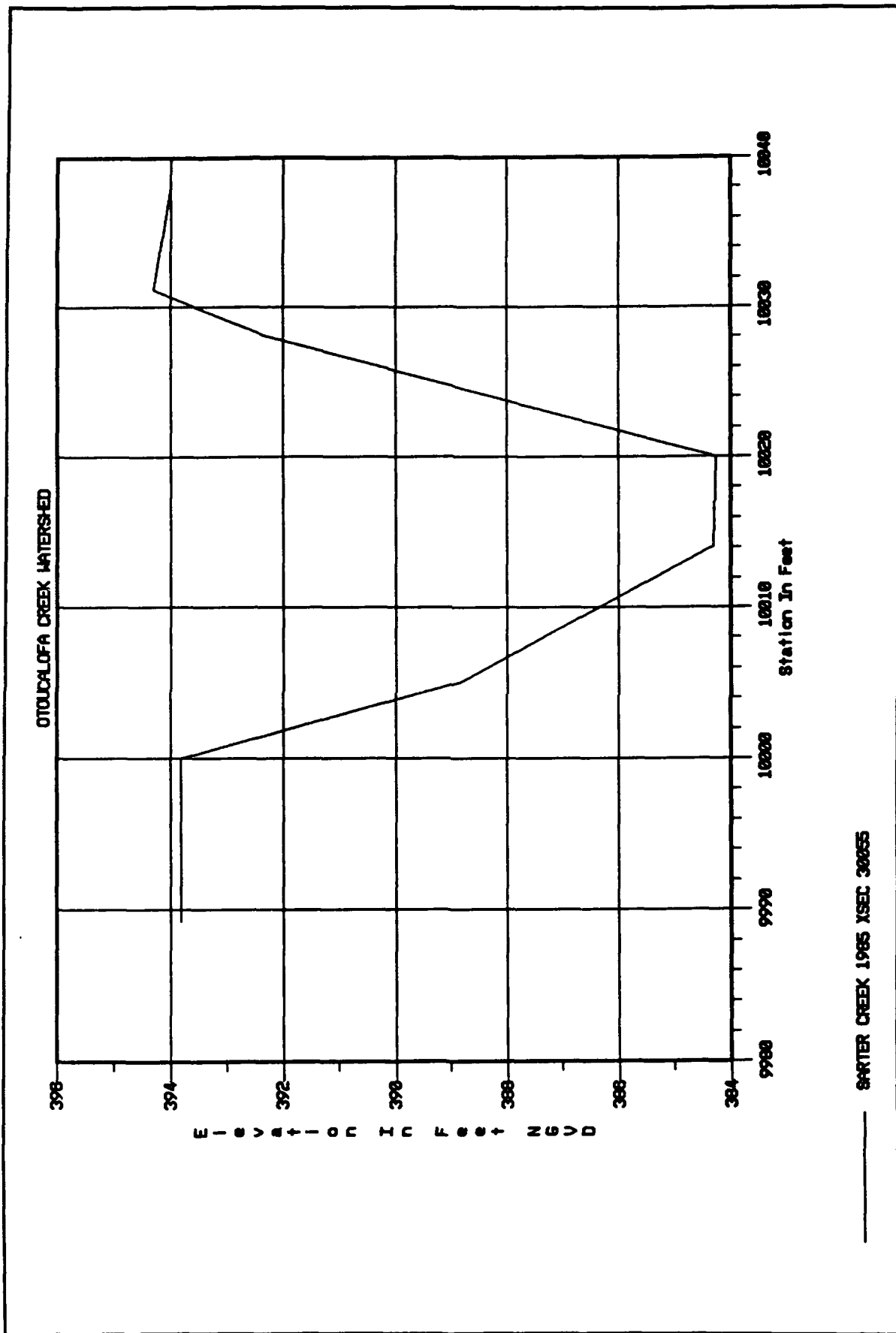
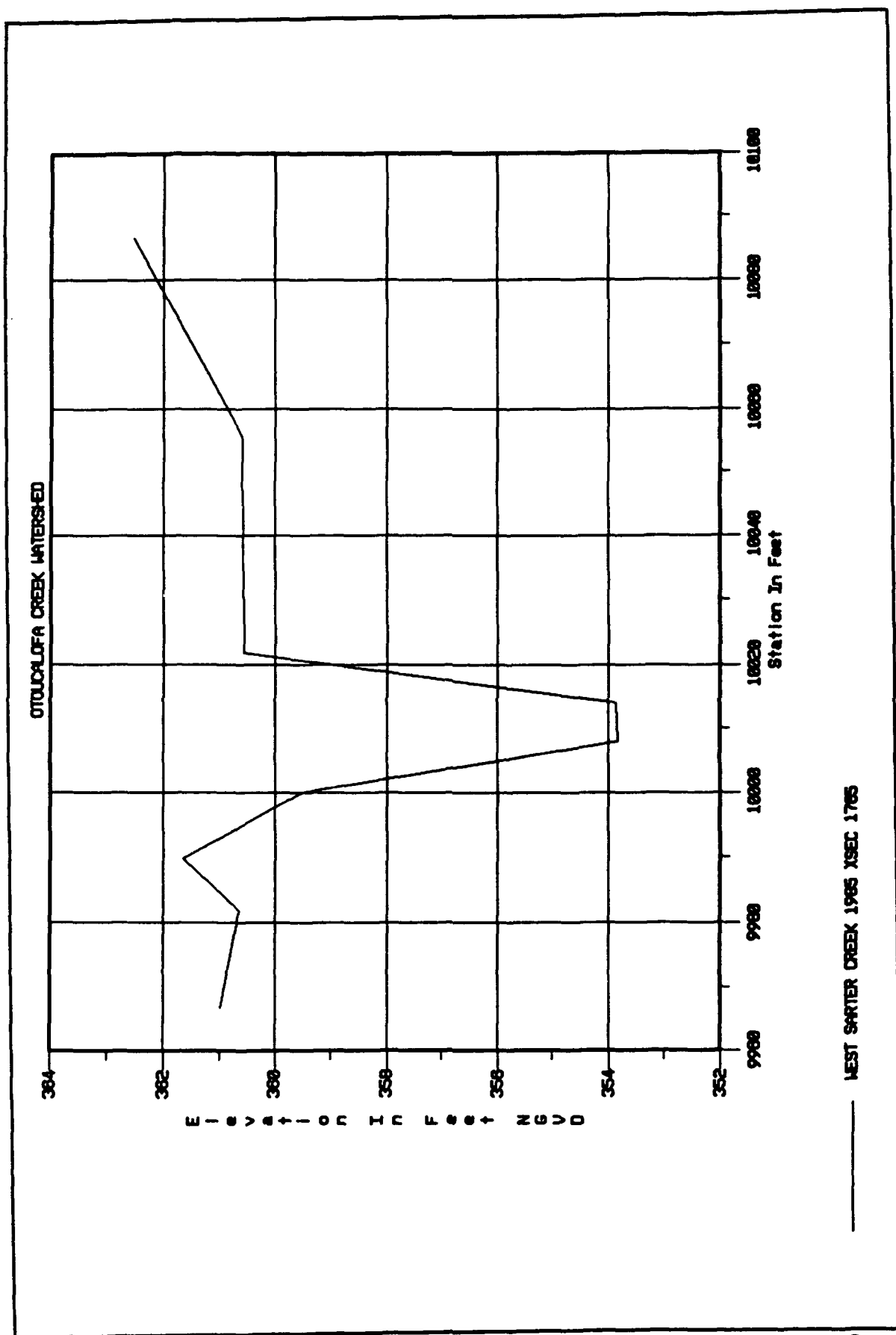


Plate C230



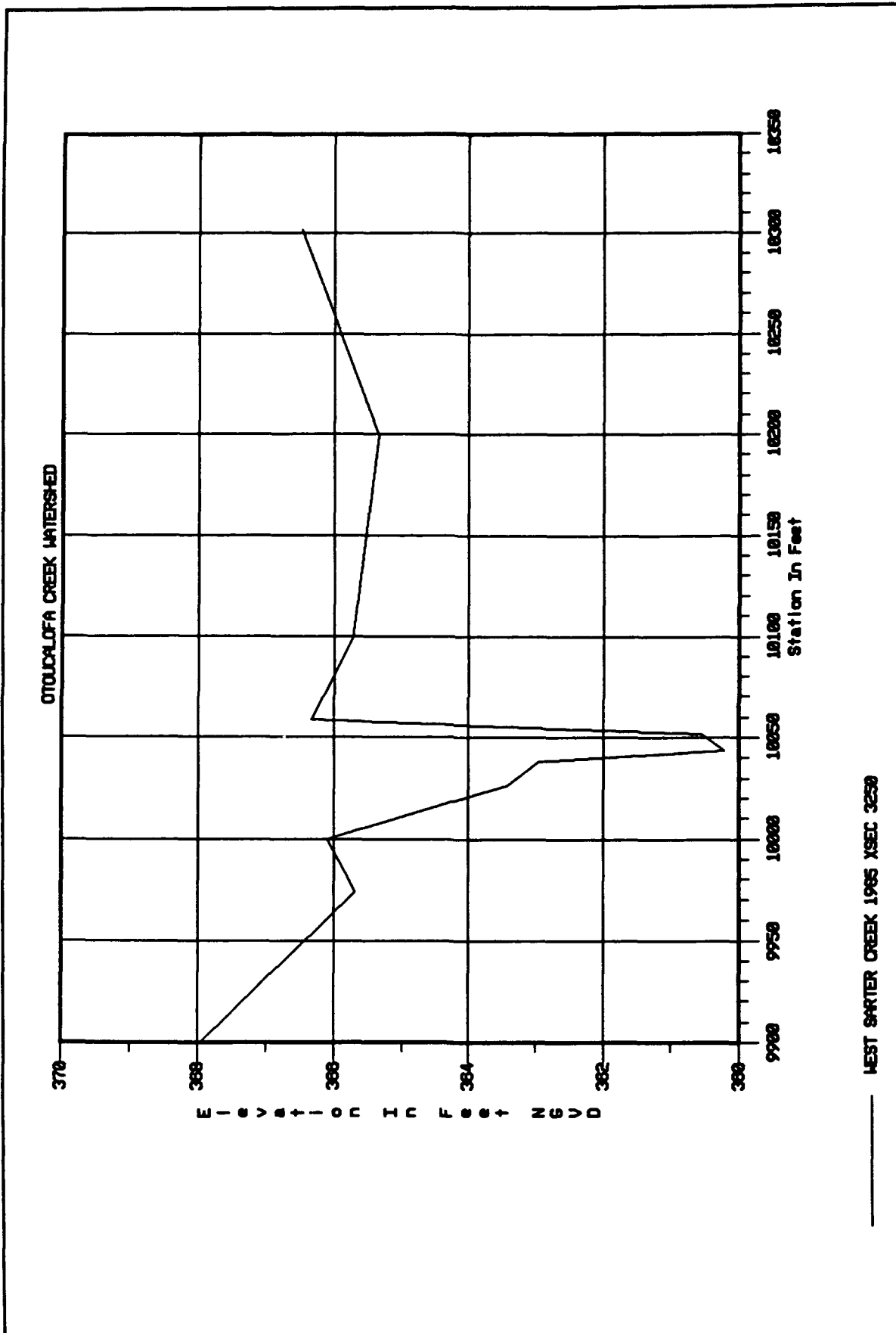
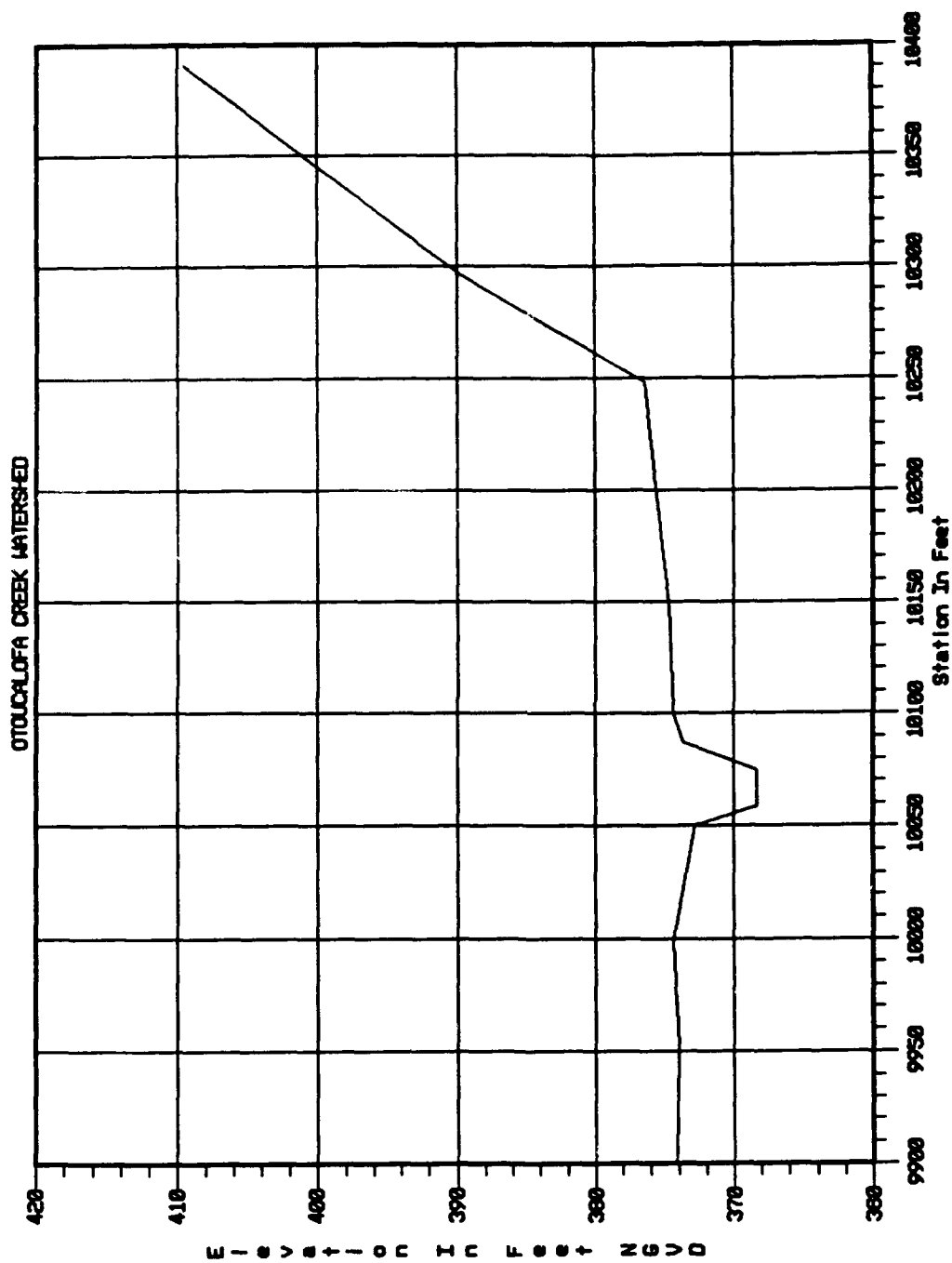


Plate C232



WEST SARTER CREEK 1985 XSEC 5150



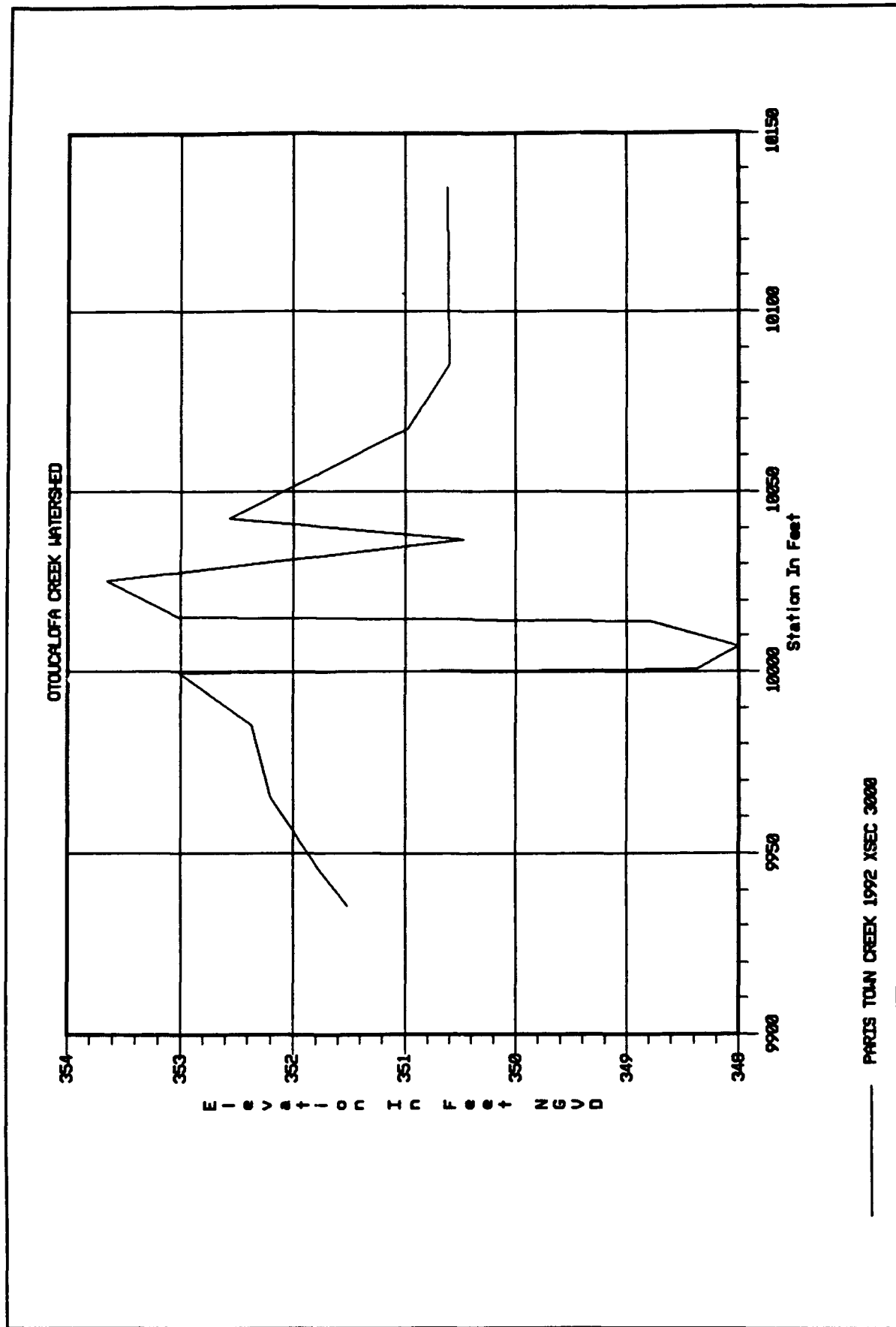
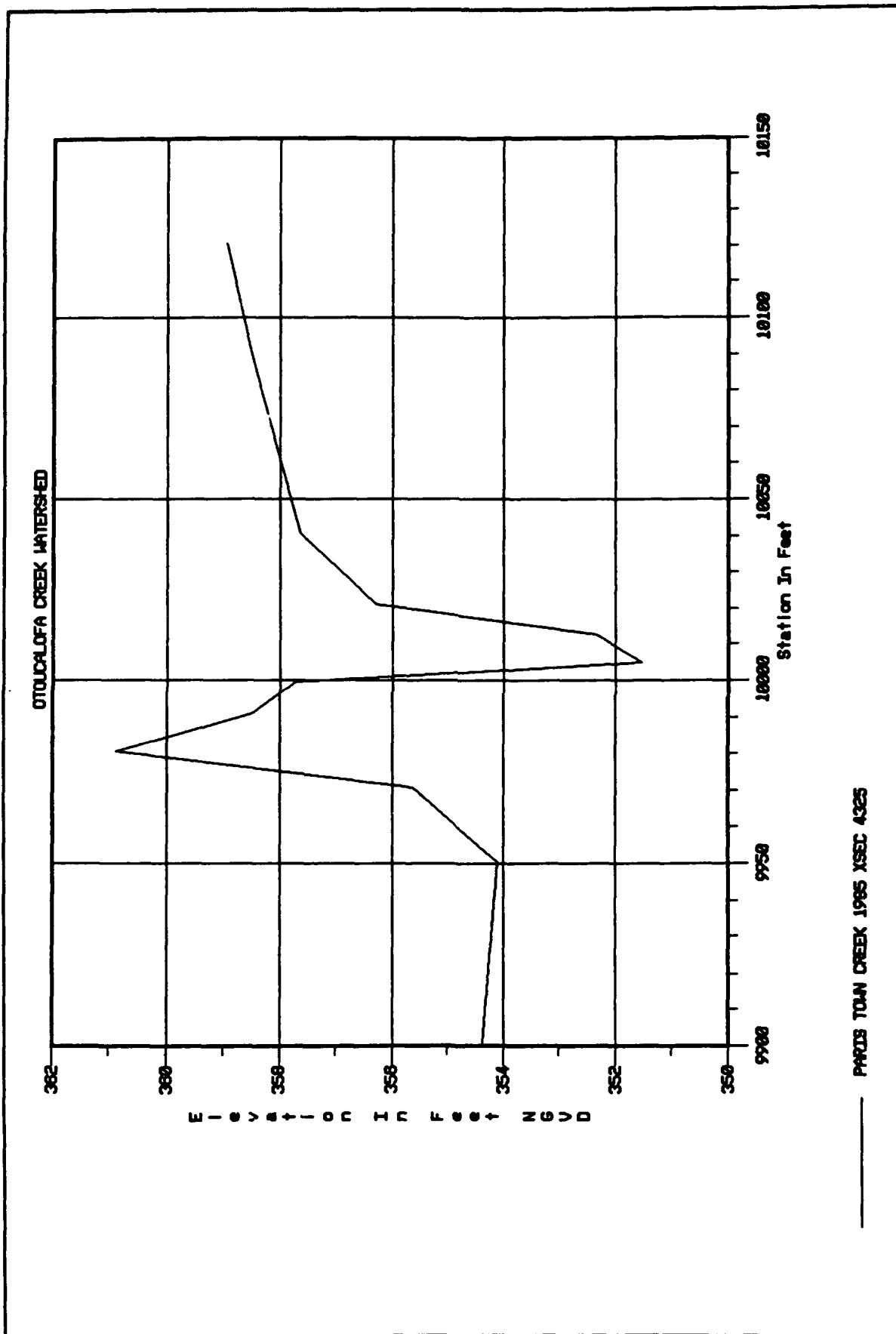


Plate C234



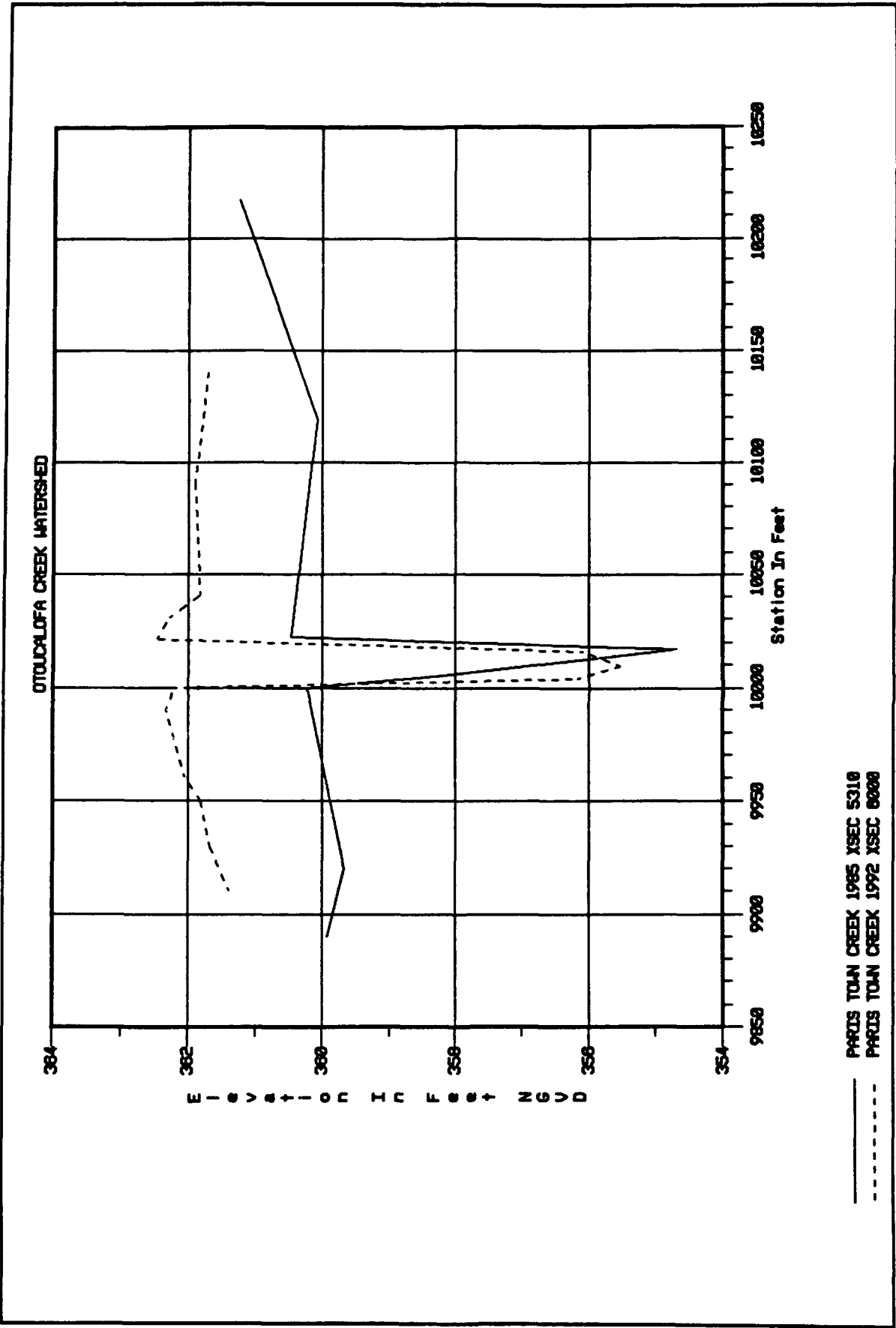
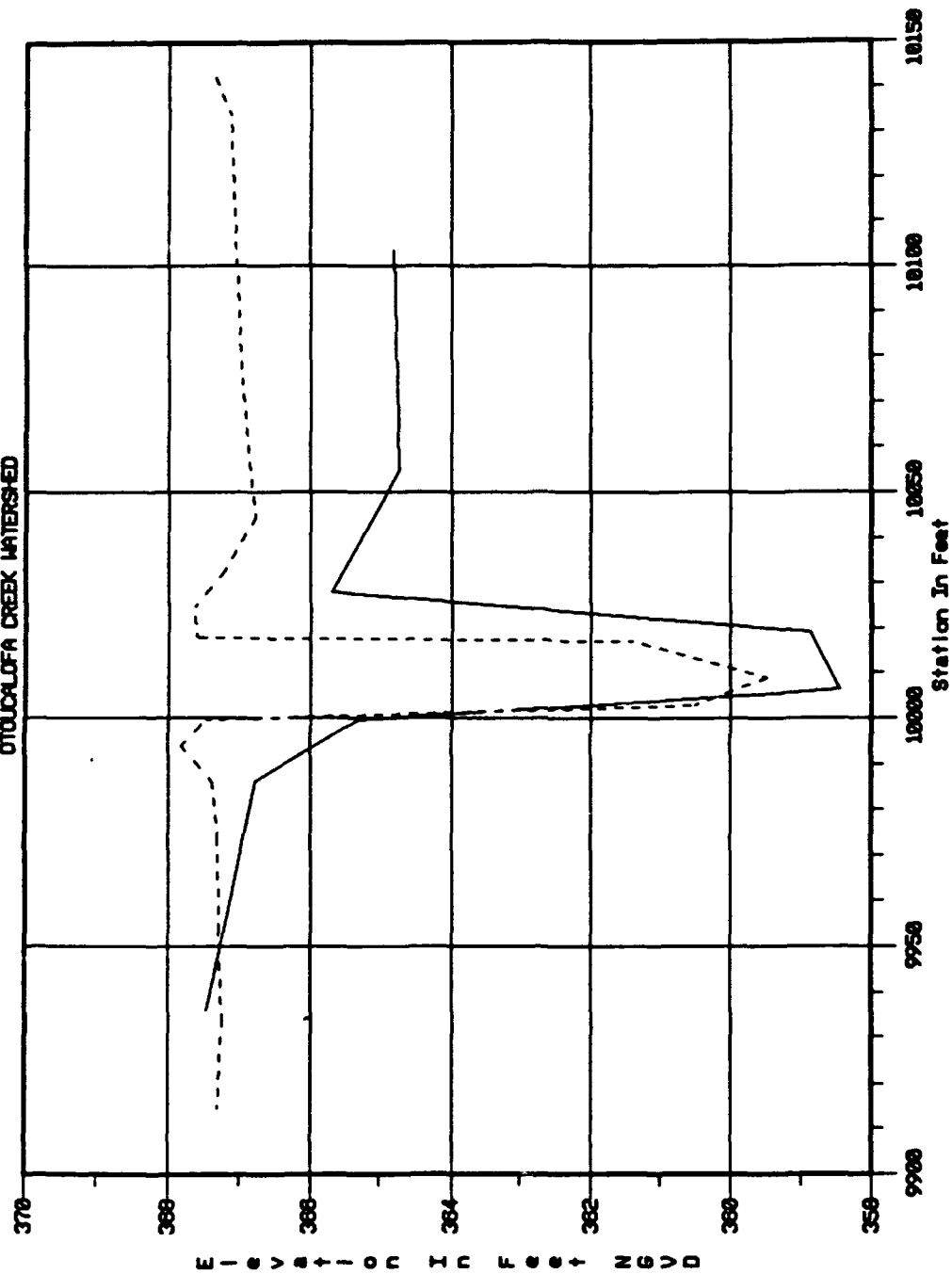


Plate C236

OTOLUOLA CREEK WATERSHED



—— PARIS TOUN CREEK 1985 XSEC 8708  
 ---- PARIS TOUN CREEK 1992 XSEC 7508

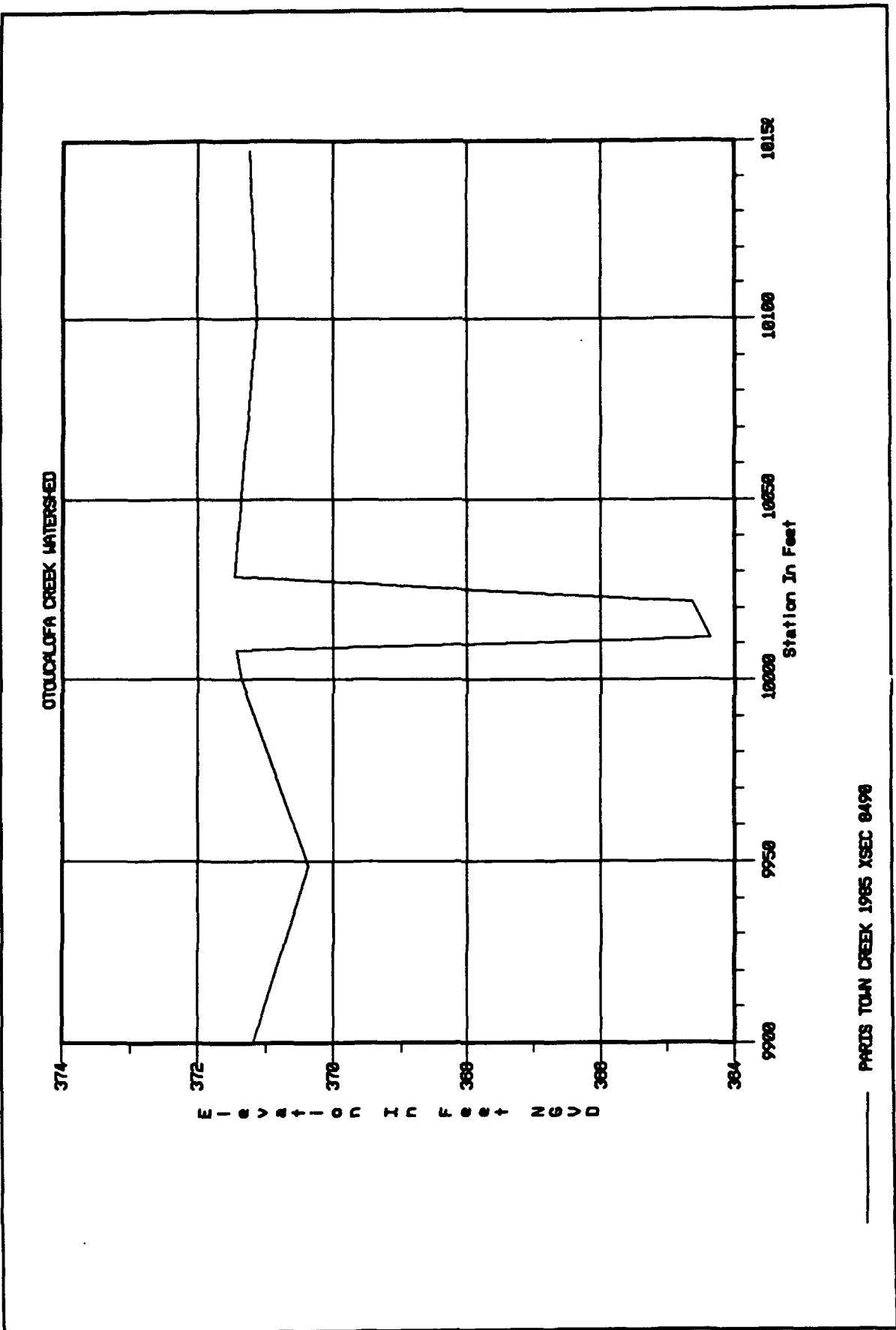
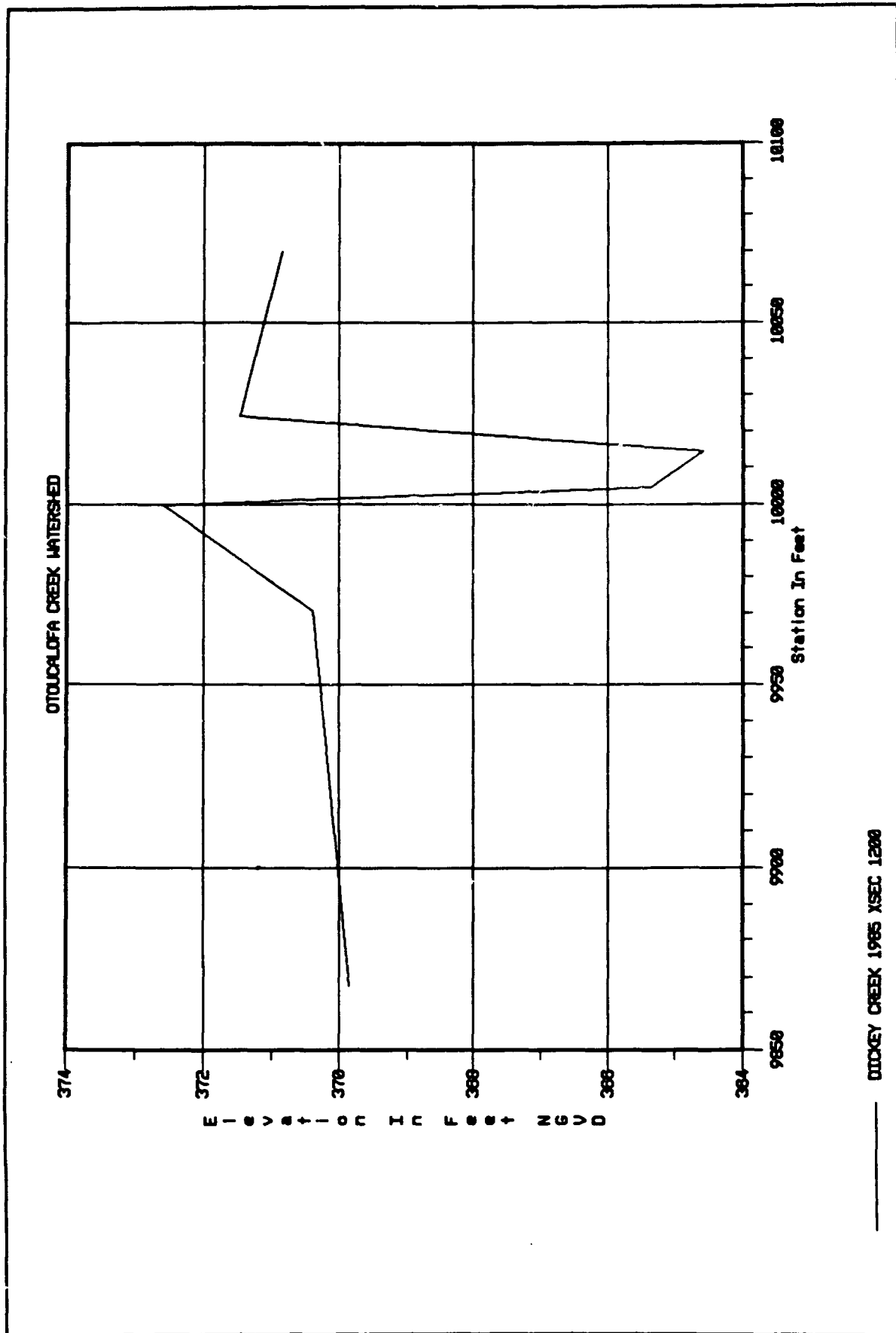
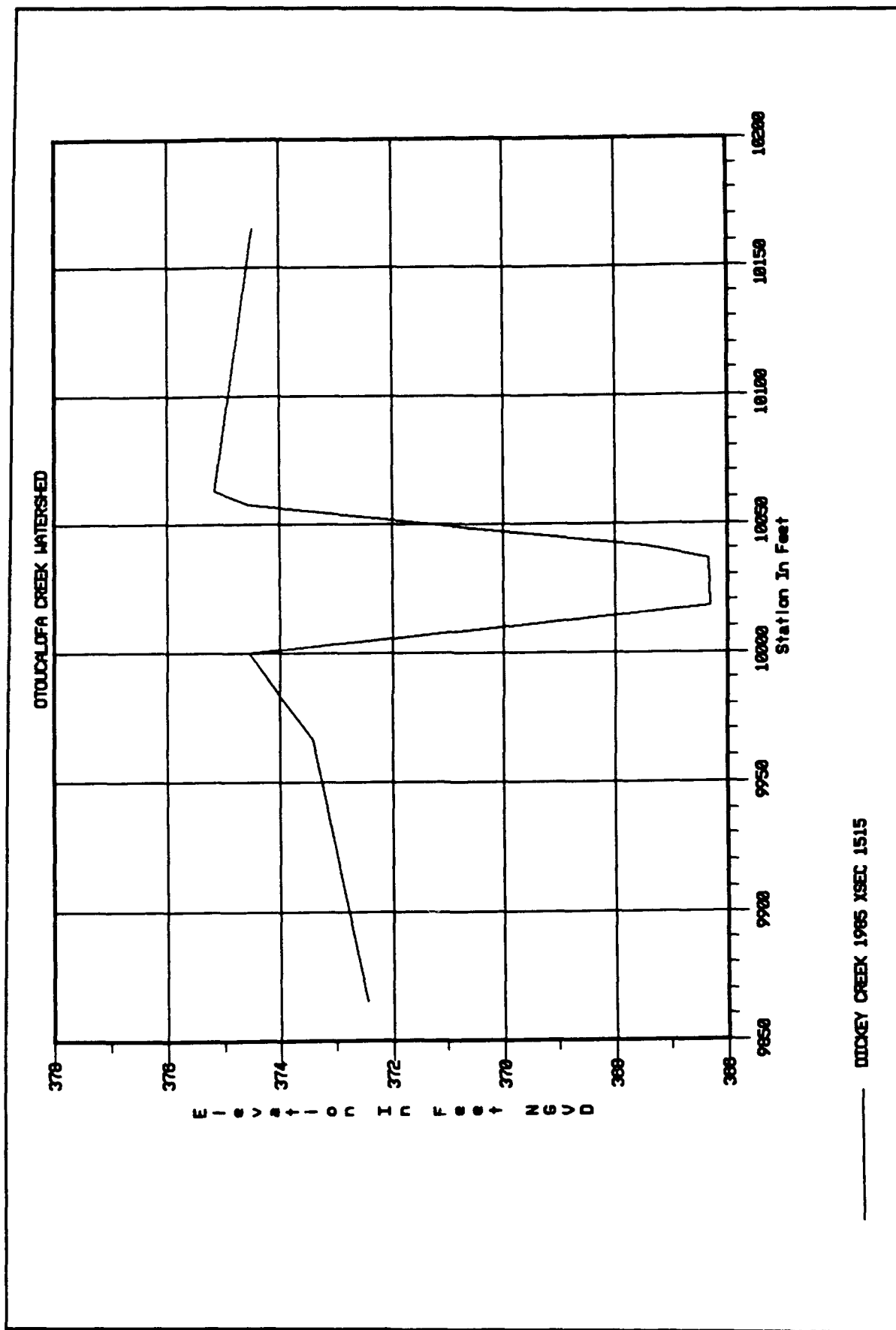
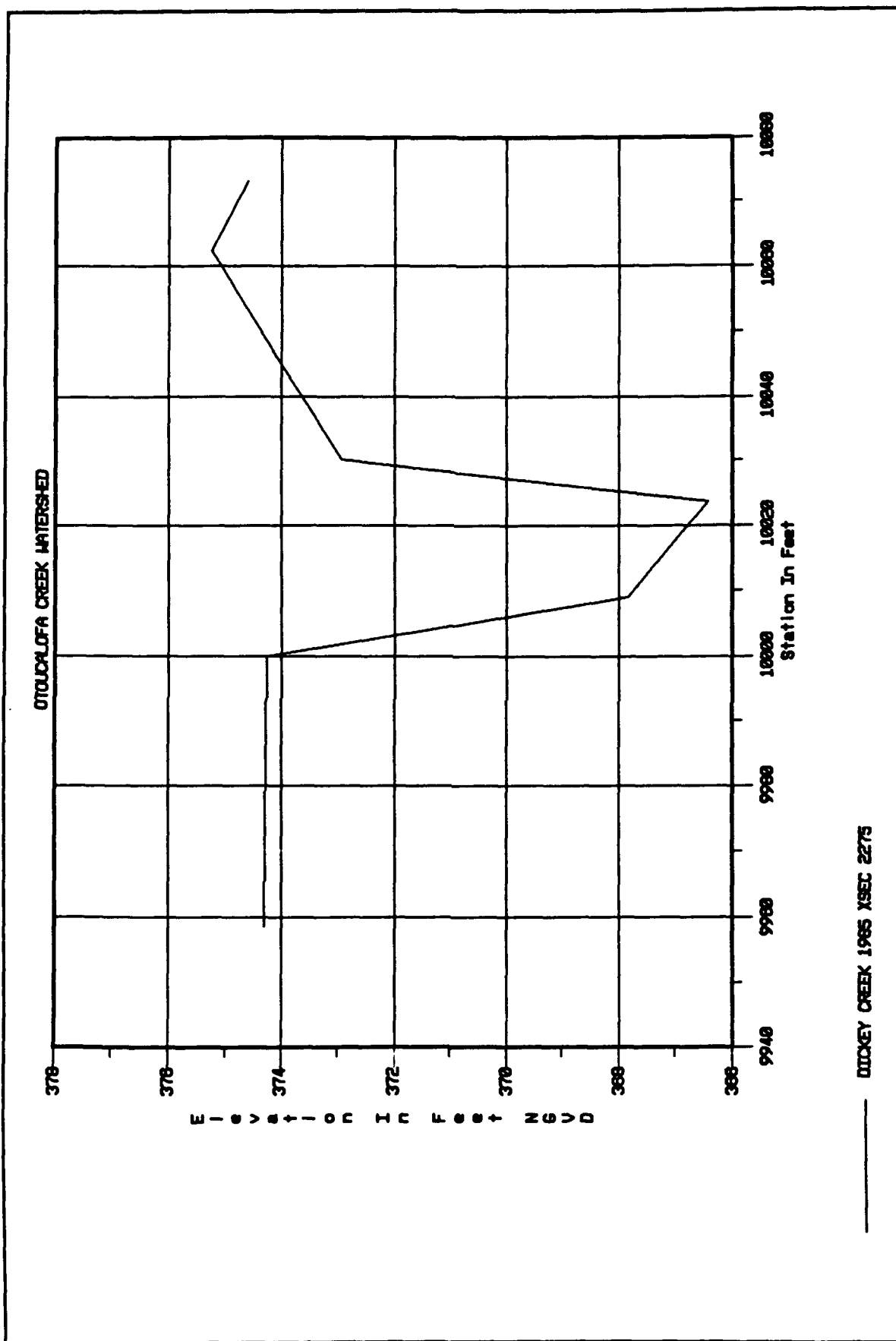


Plate C238









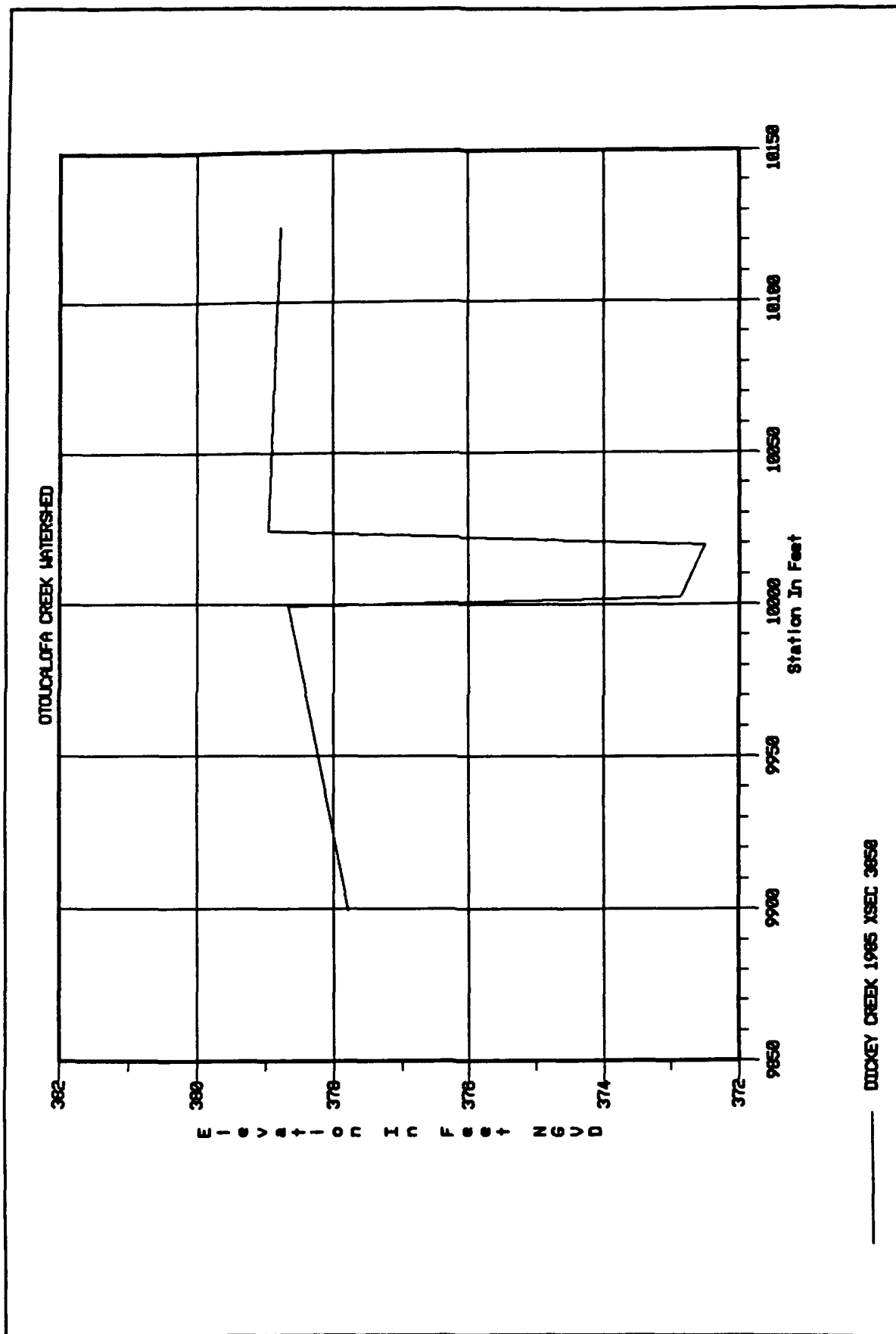
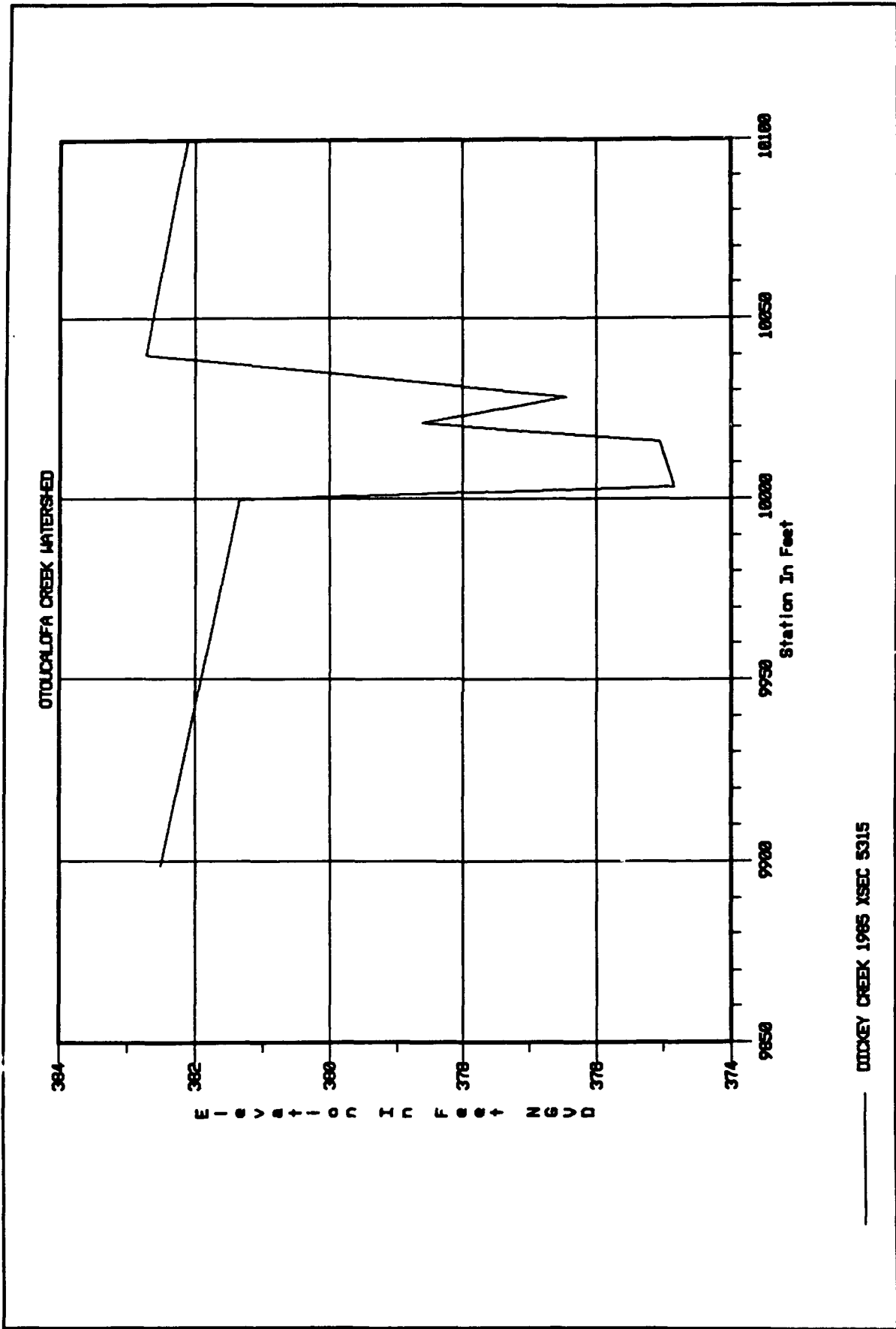


Plate C242



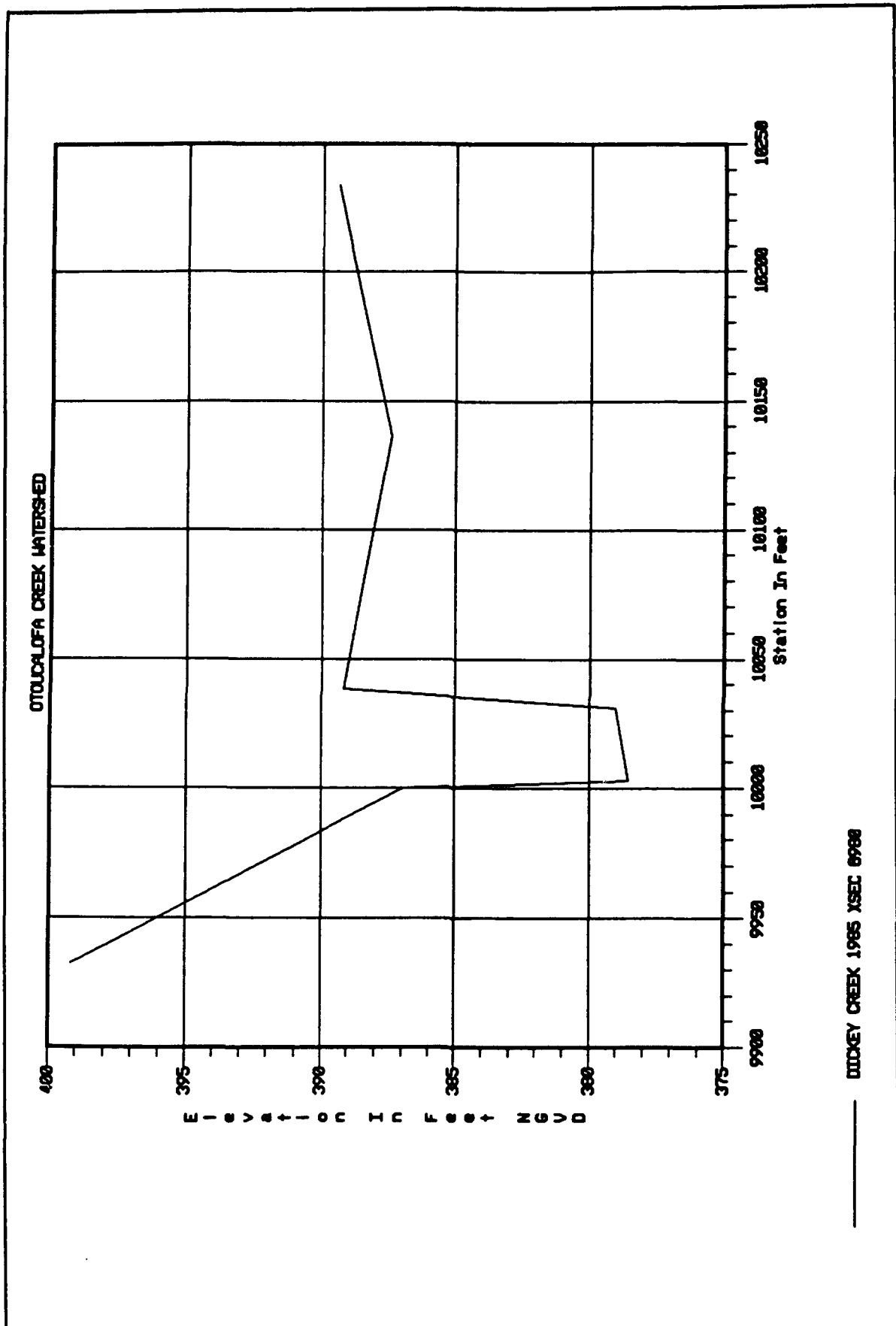
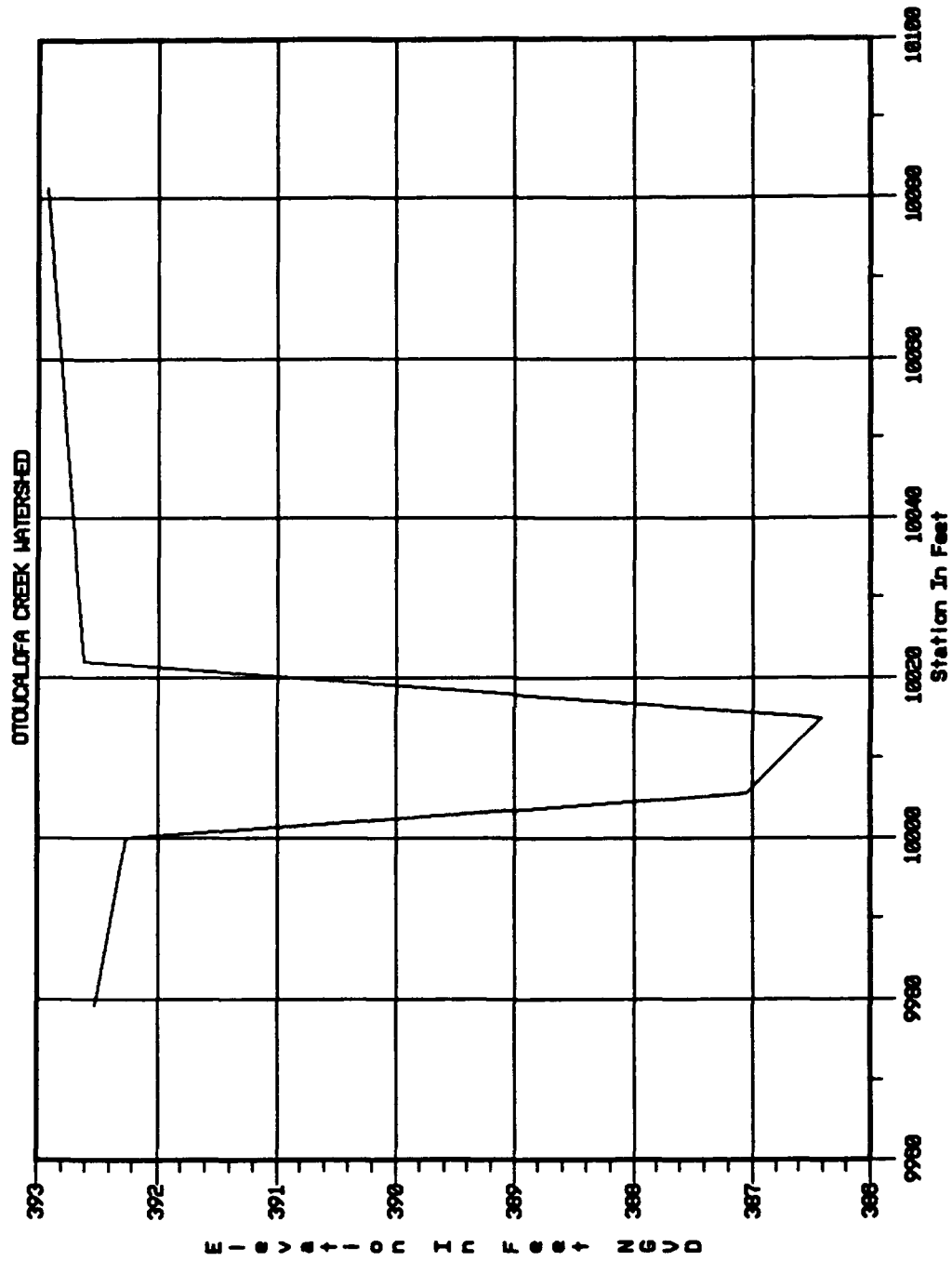


Plate C244



—— DIXIEY CREEK 1965 XSEC 8825

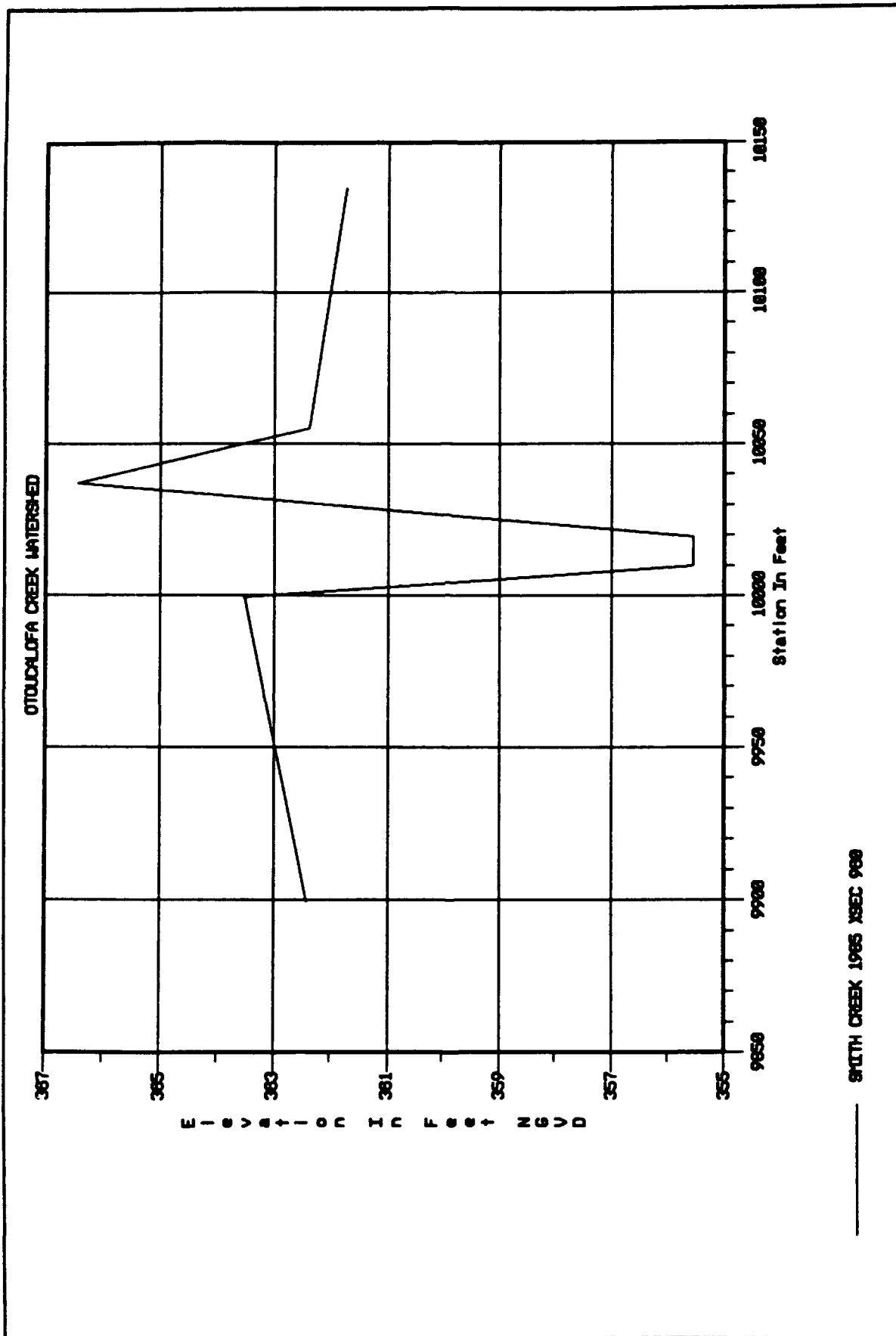
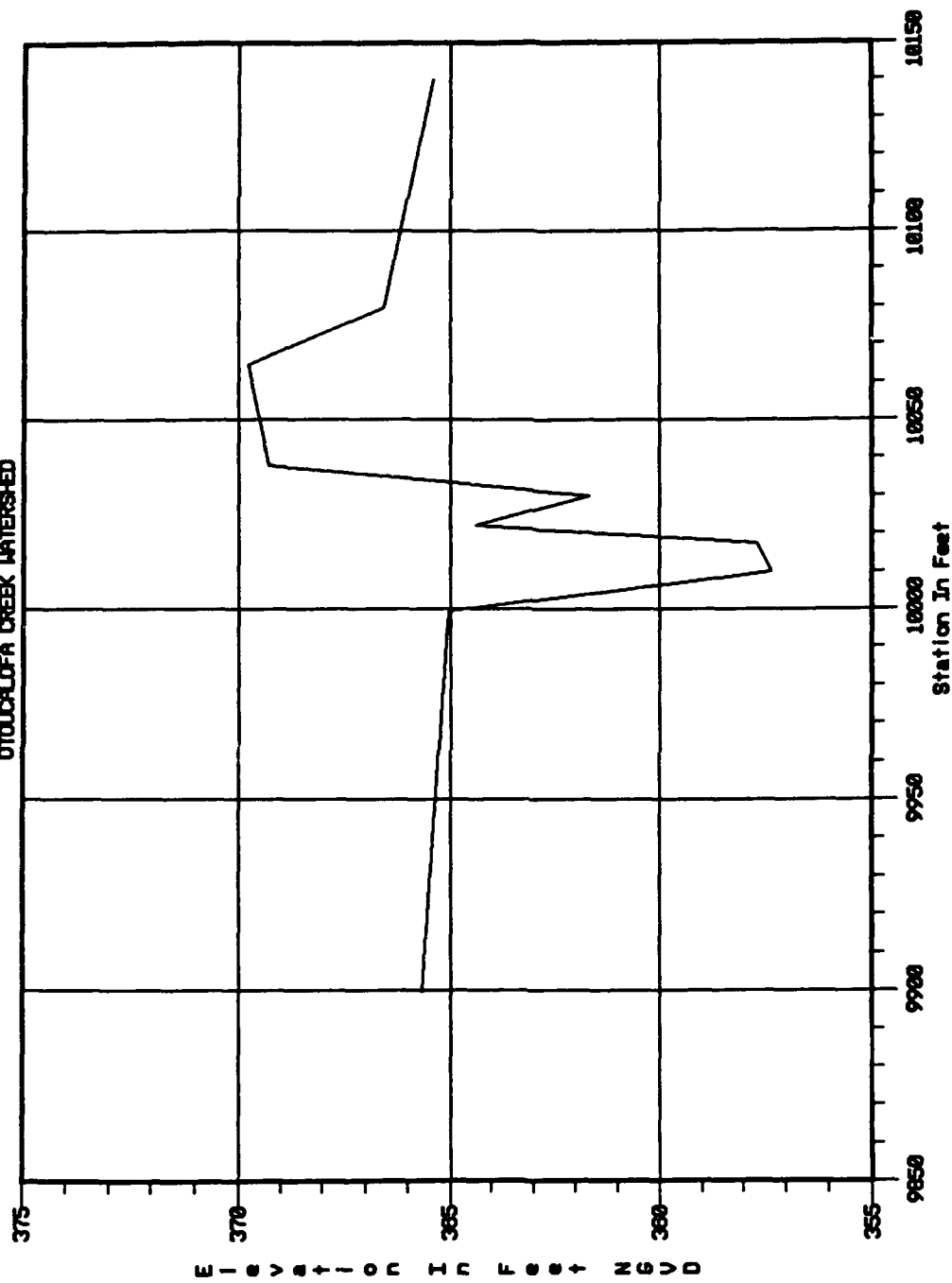


Plate C246

# OTOLUALOFA CREEK WATERSHED



SMITH CREEK 1985 XSEC 2085

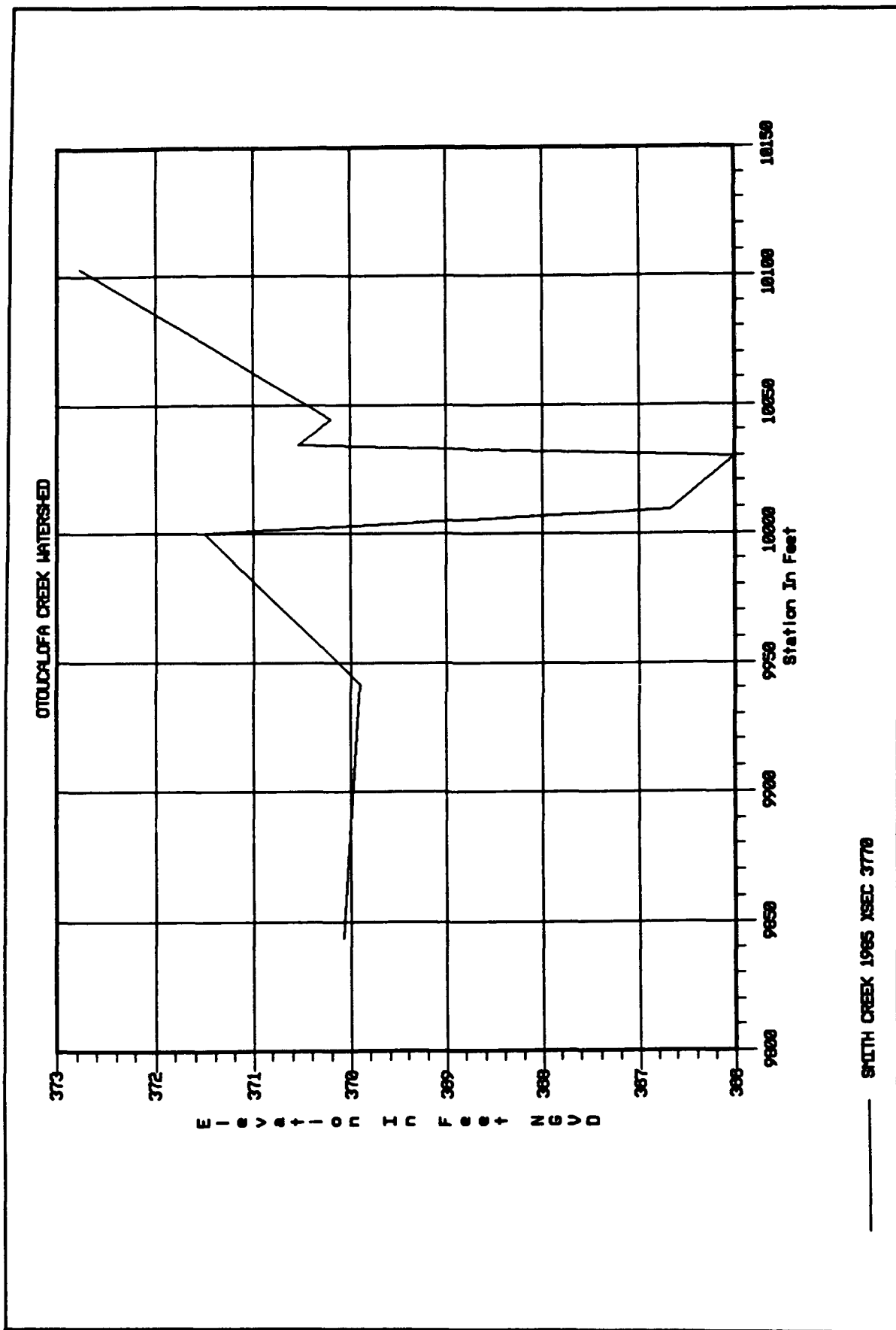
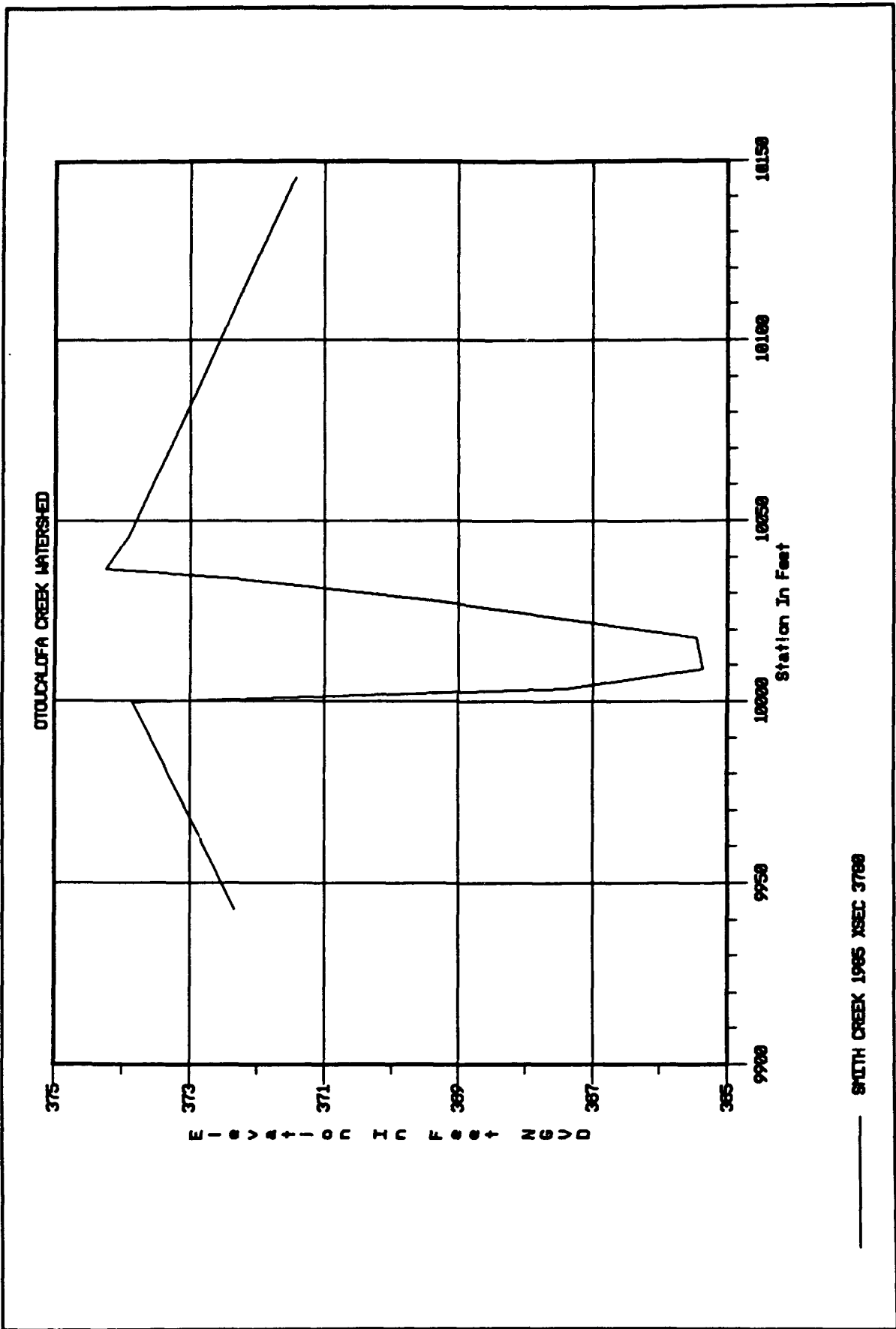


Plate C248





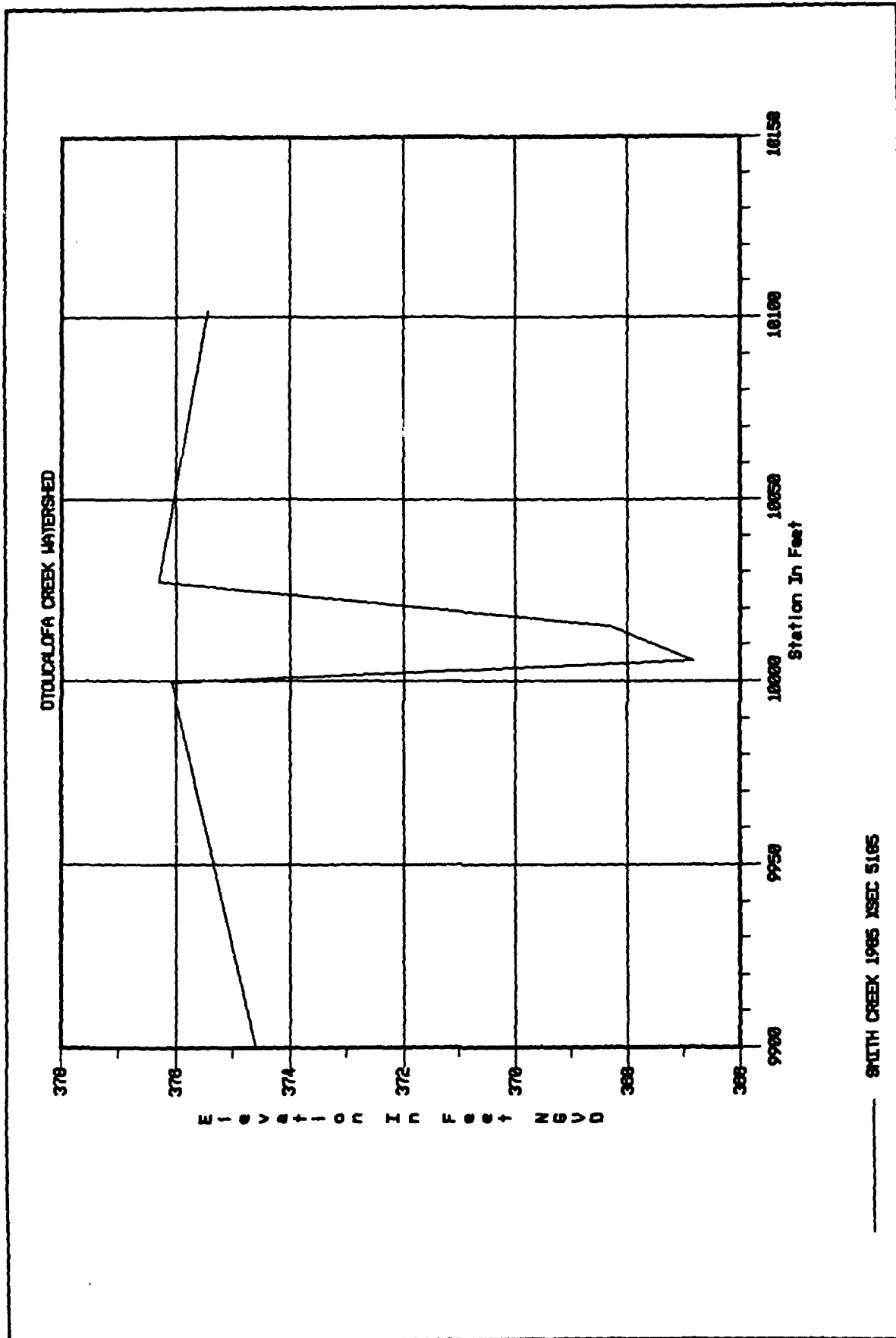
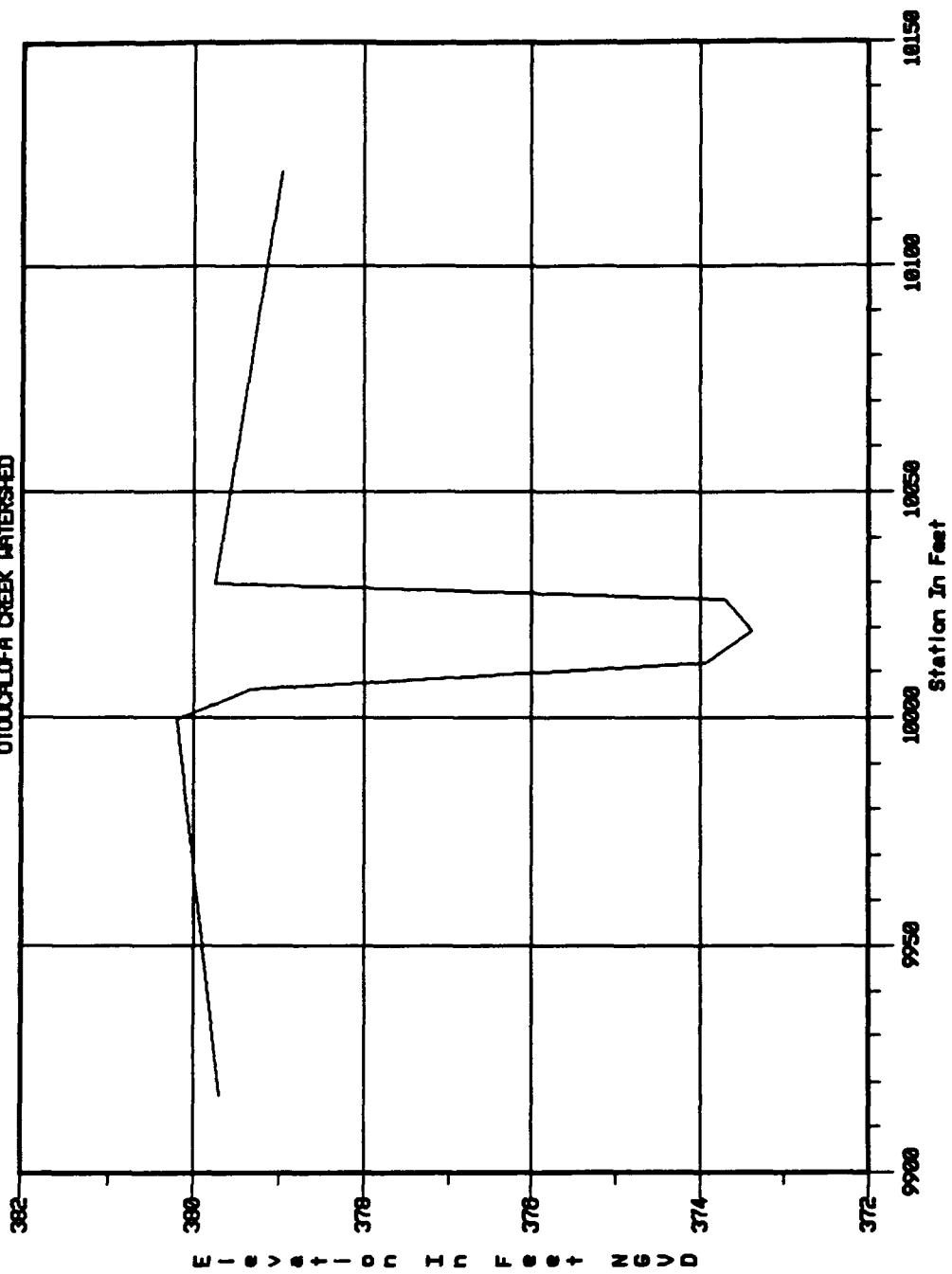


Plate C250

# OTOLUCA CREEK WATERSHED



SMITH CREEK 1985 XSEC 8825

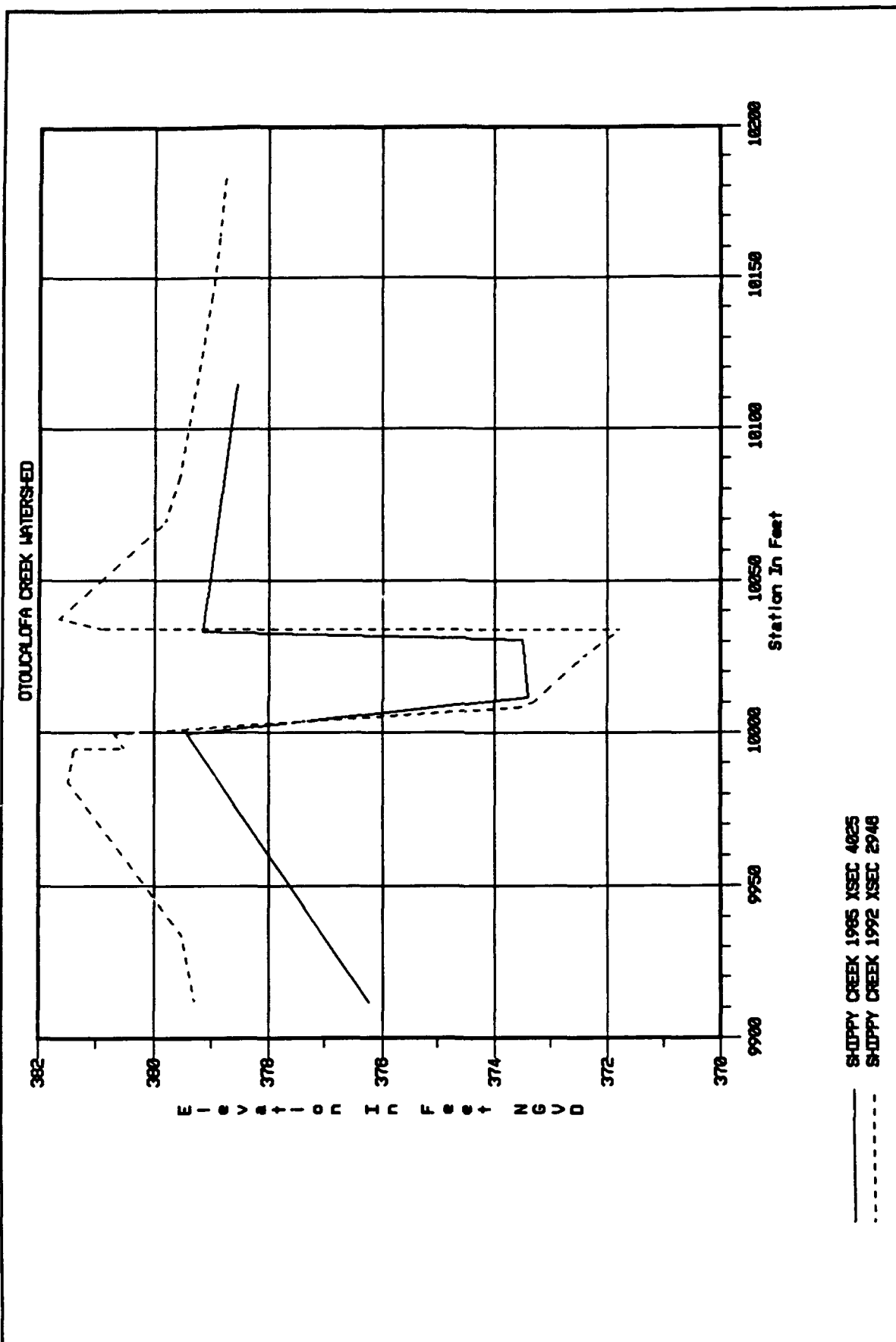
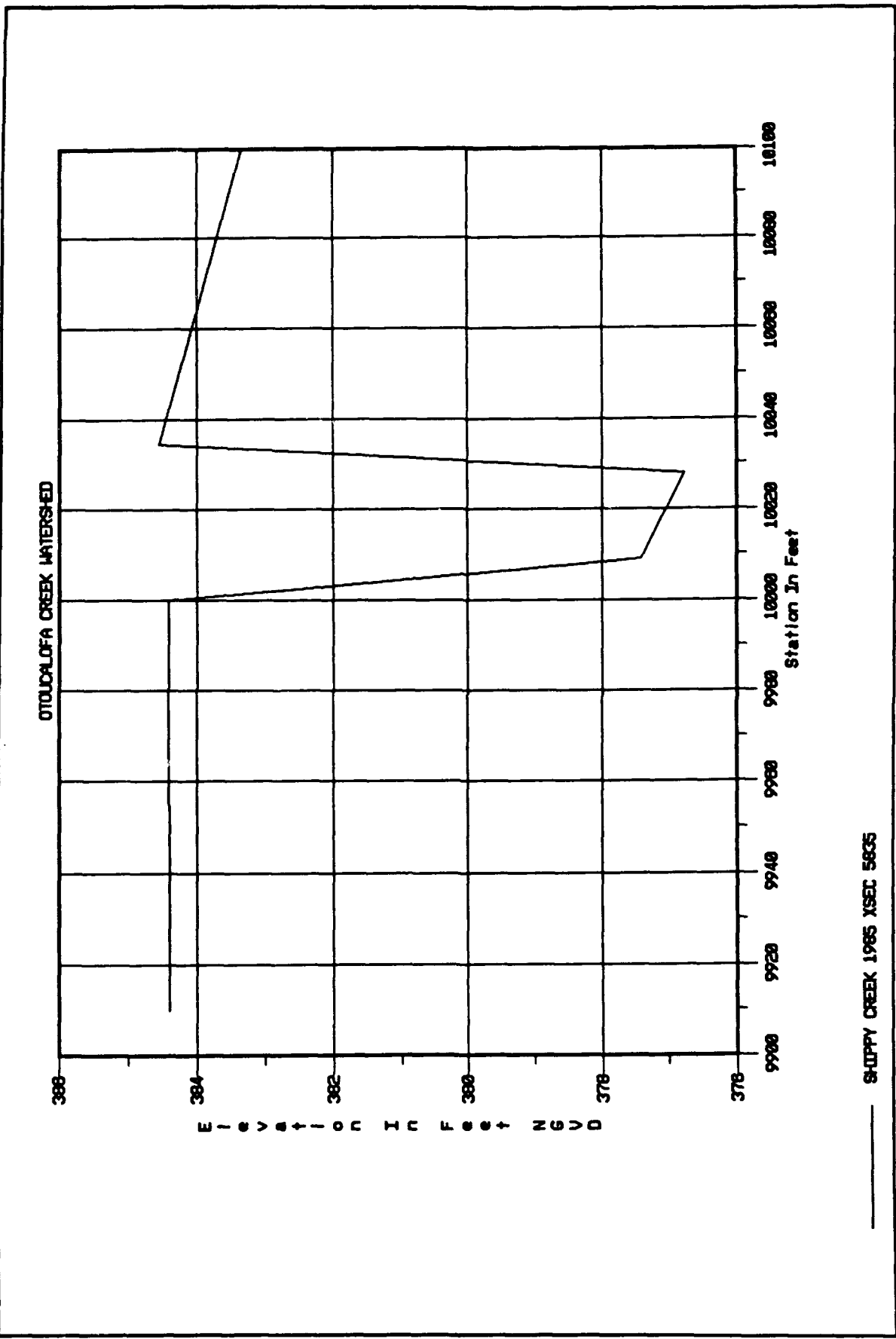


Plate C252



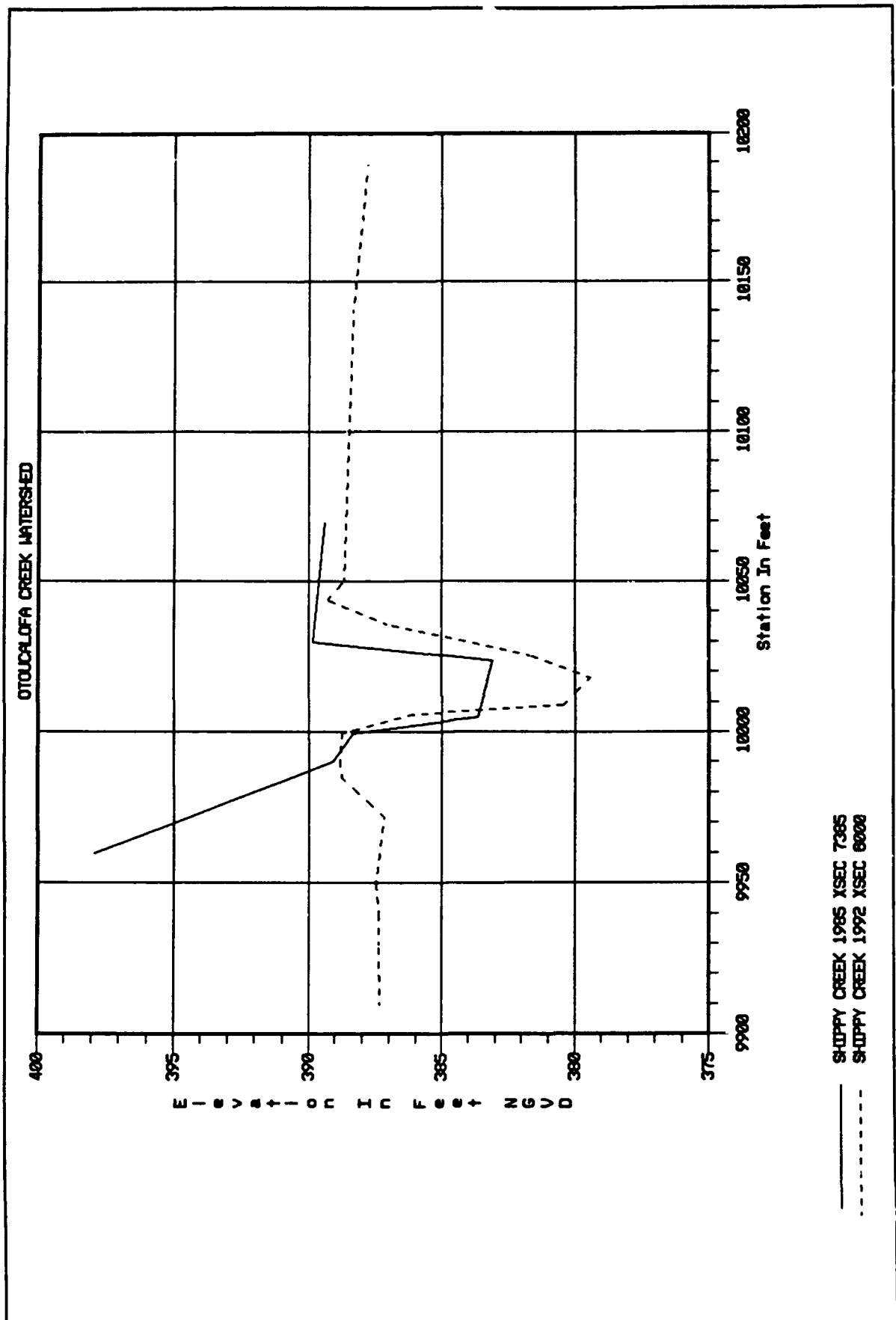
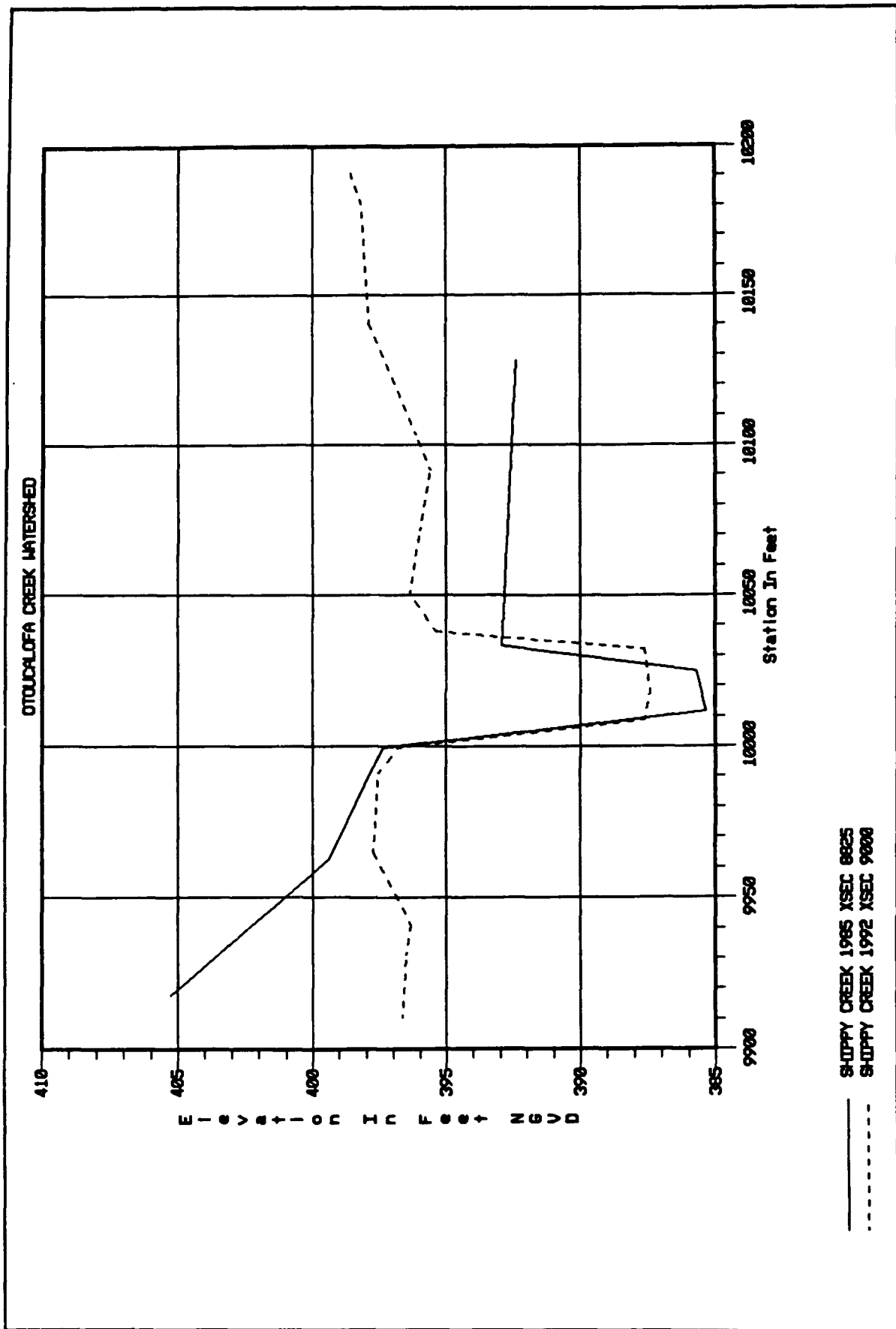
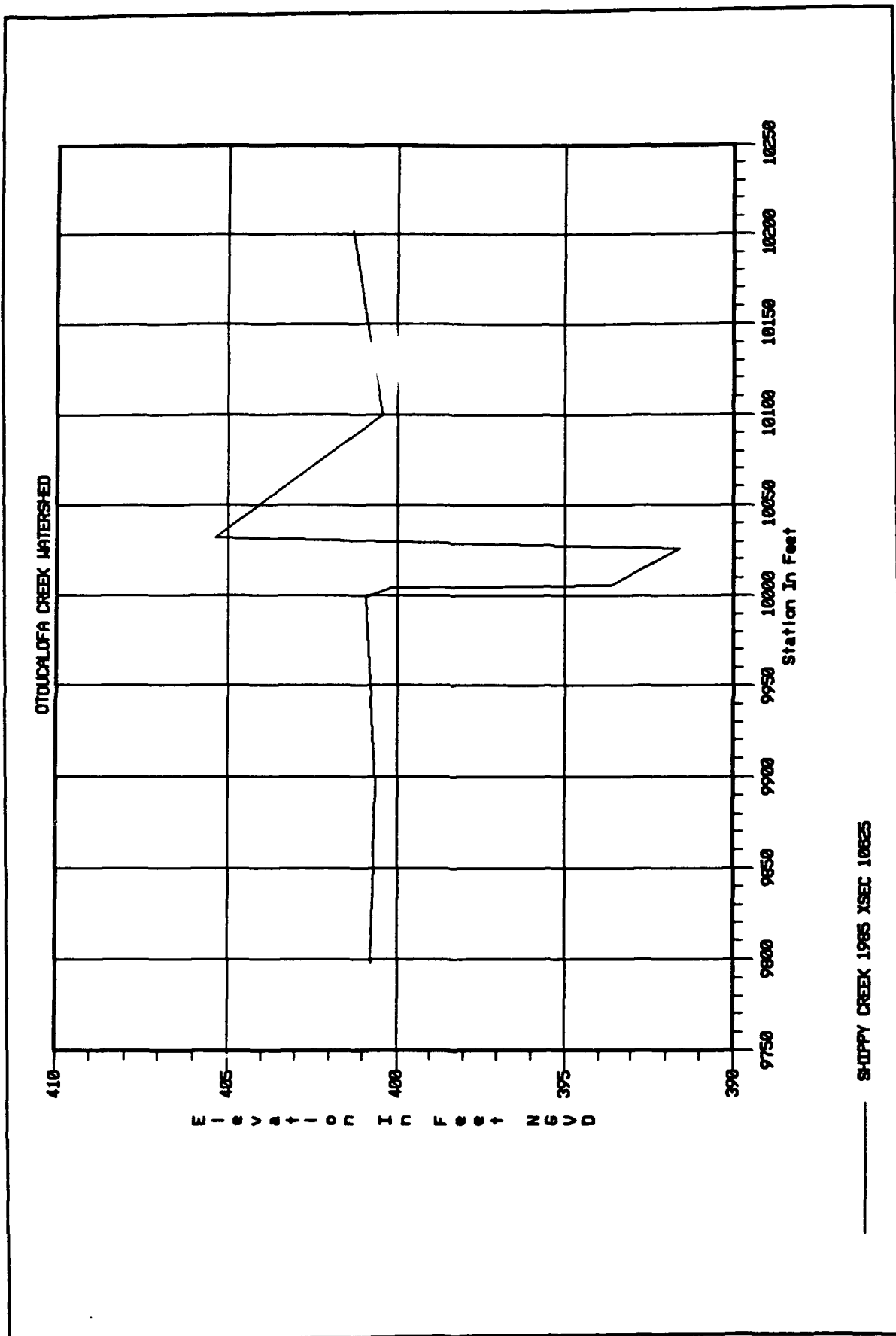
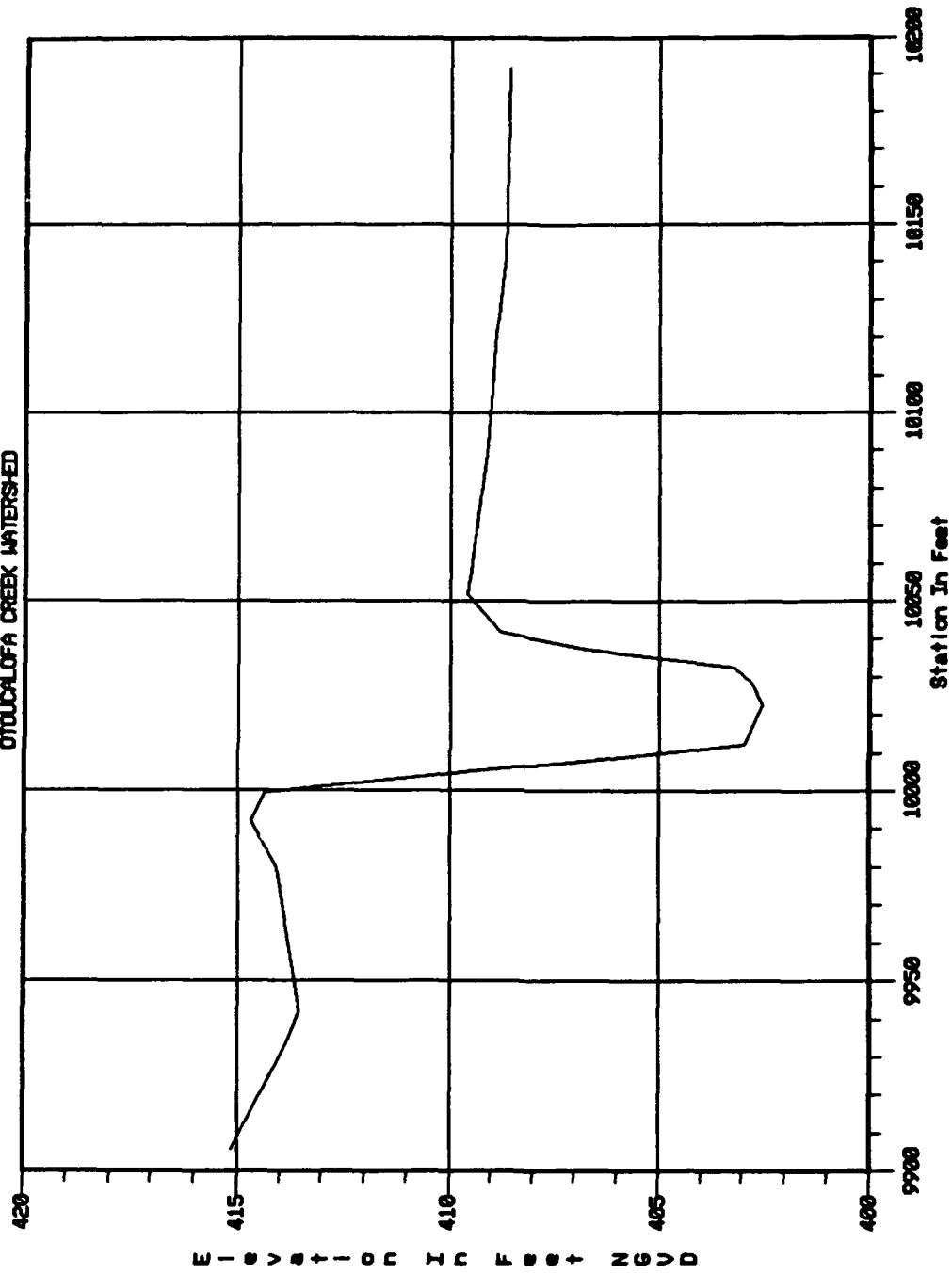


Plate C254





# OTOLCALOFA CREEK WATERSHED



SHIPPY CREEK 1992 XSEC 12160



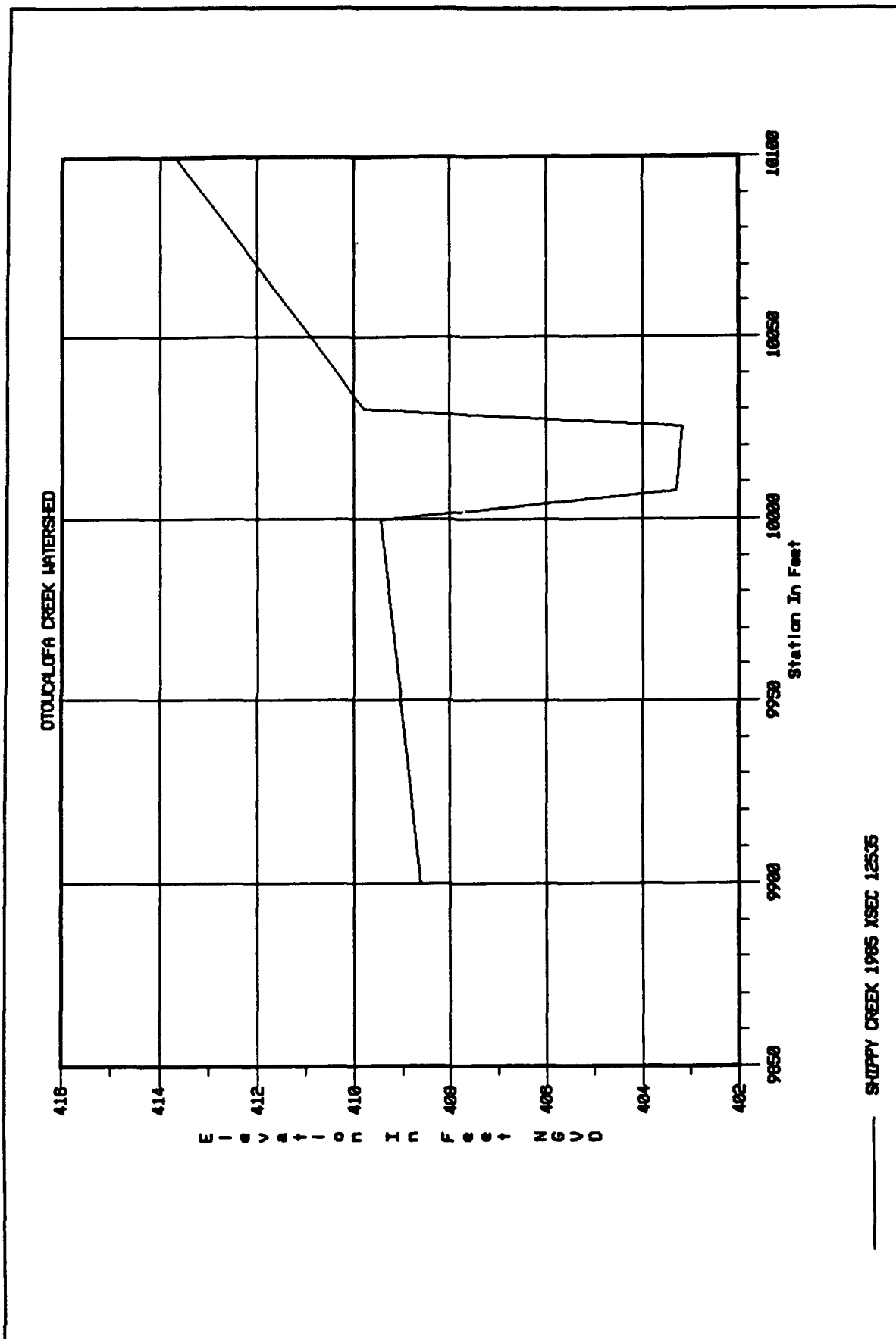
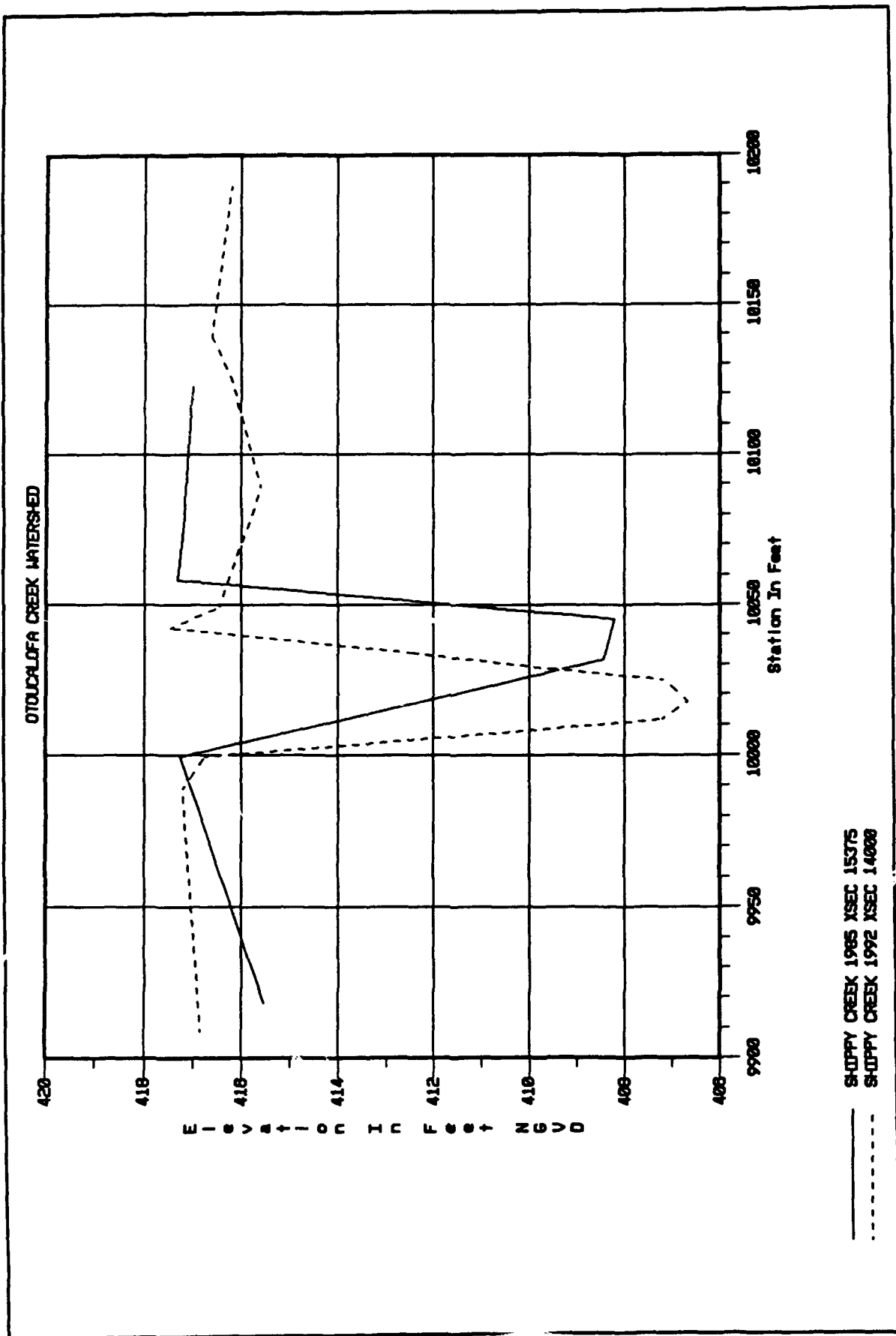


Plate C258



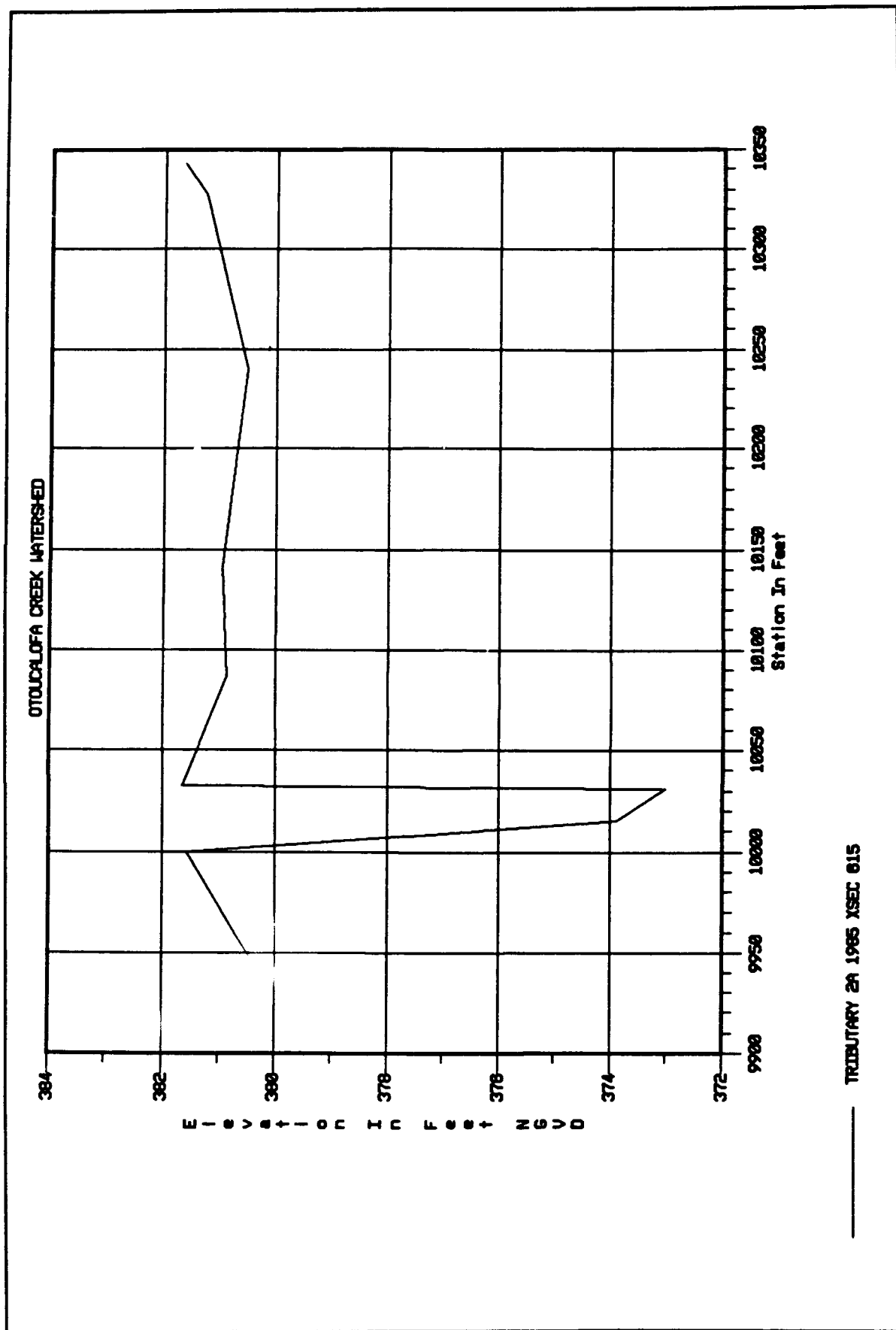
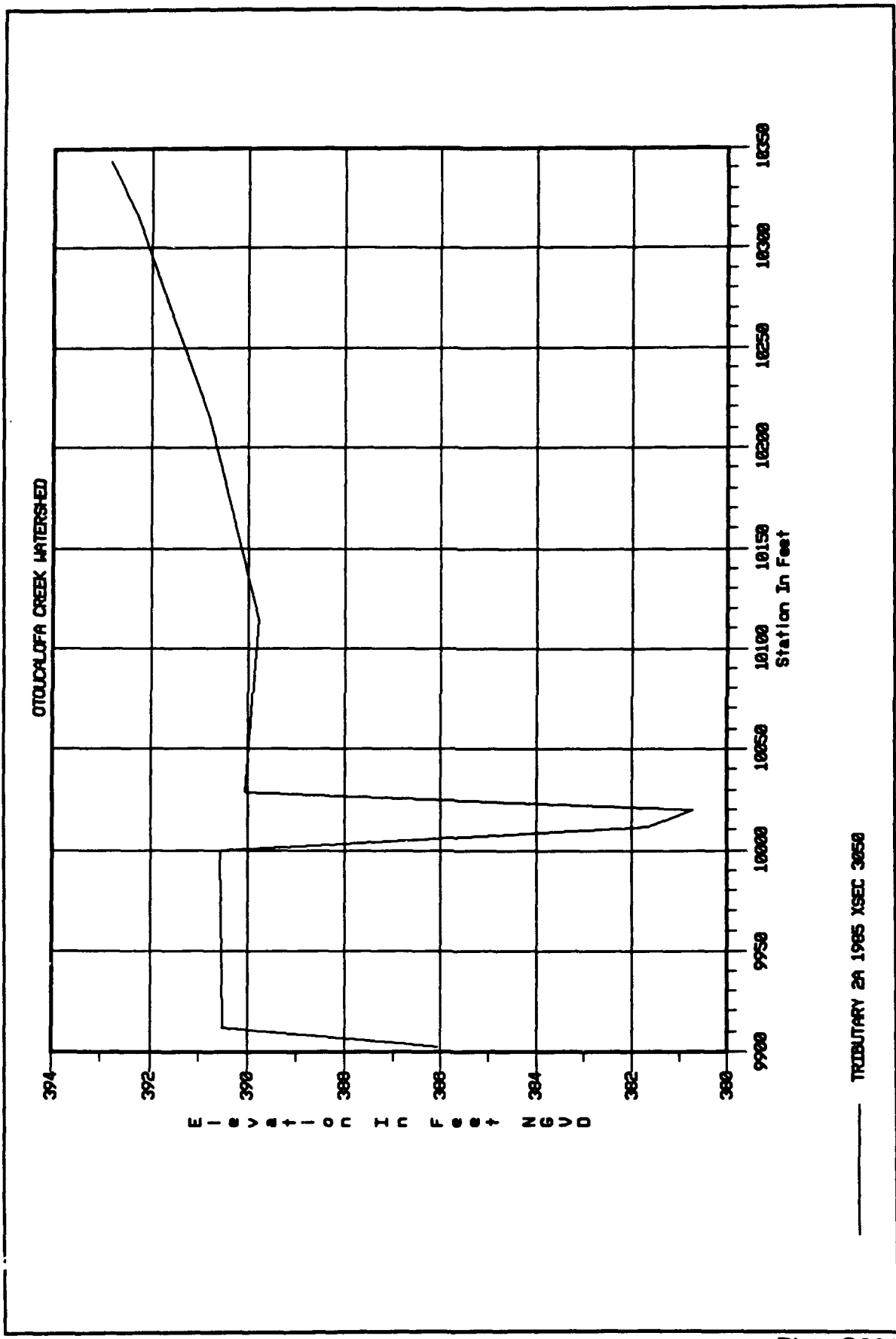


Plate C260



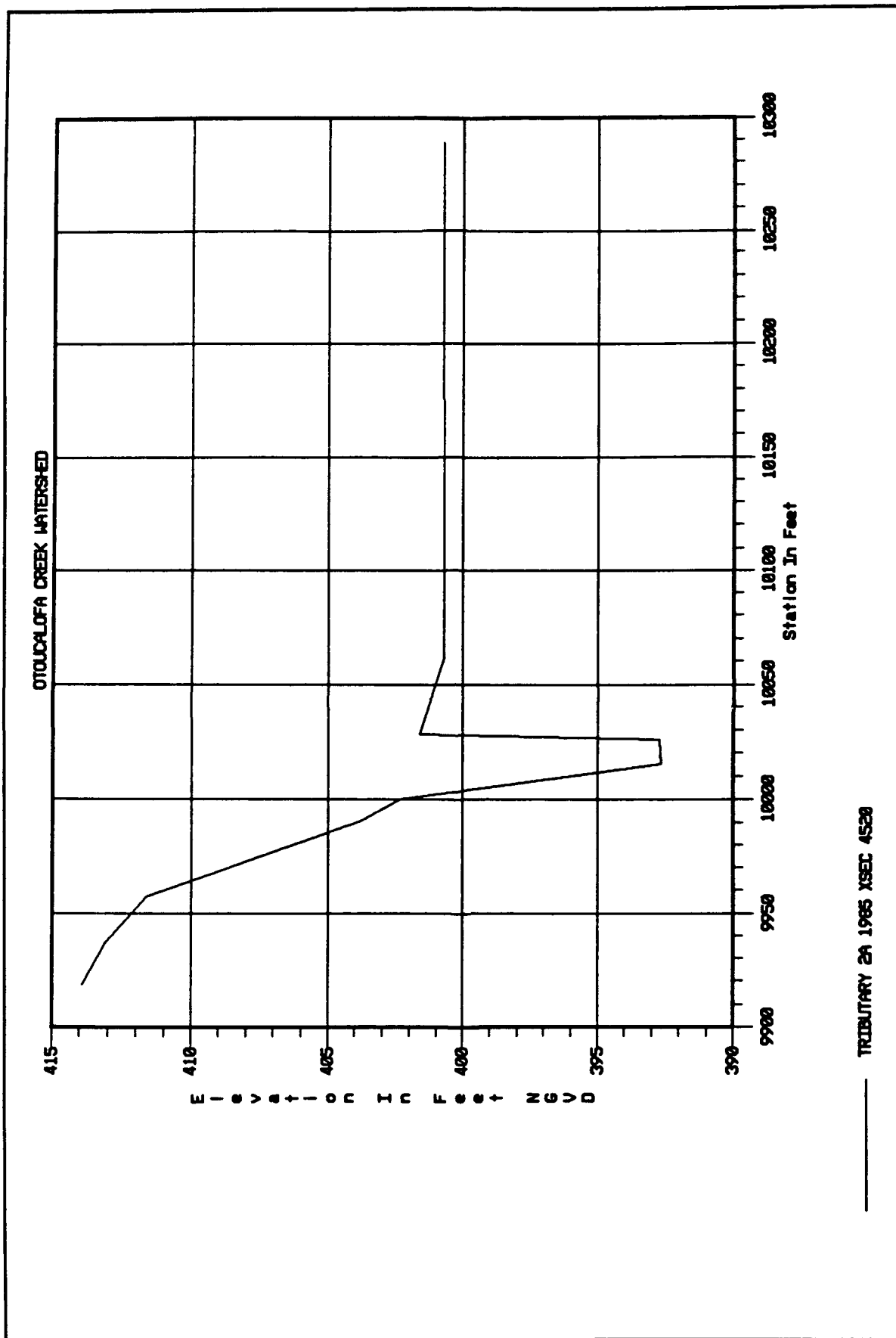
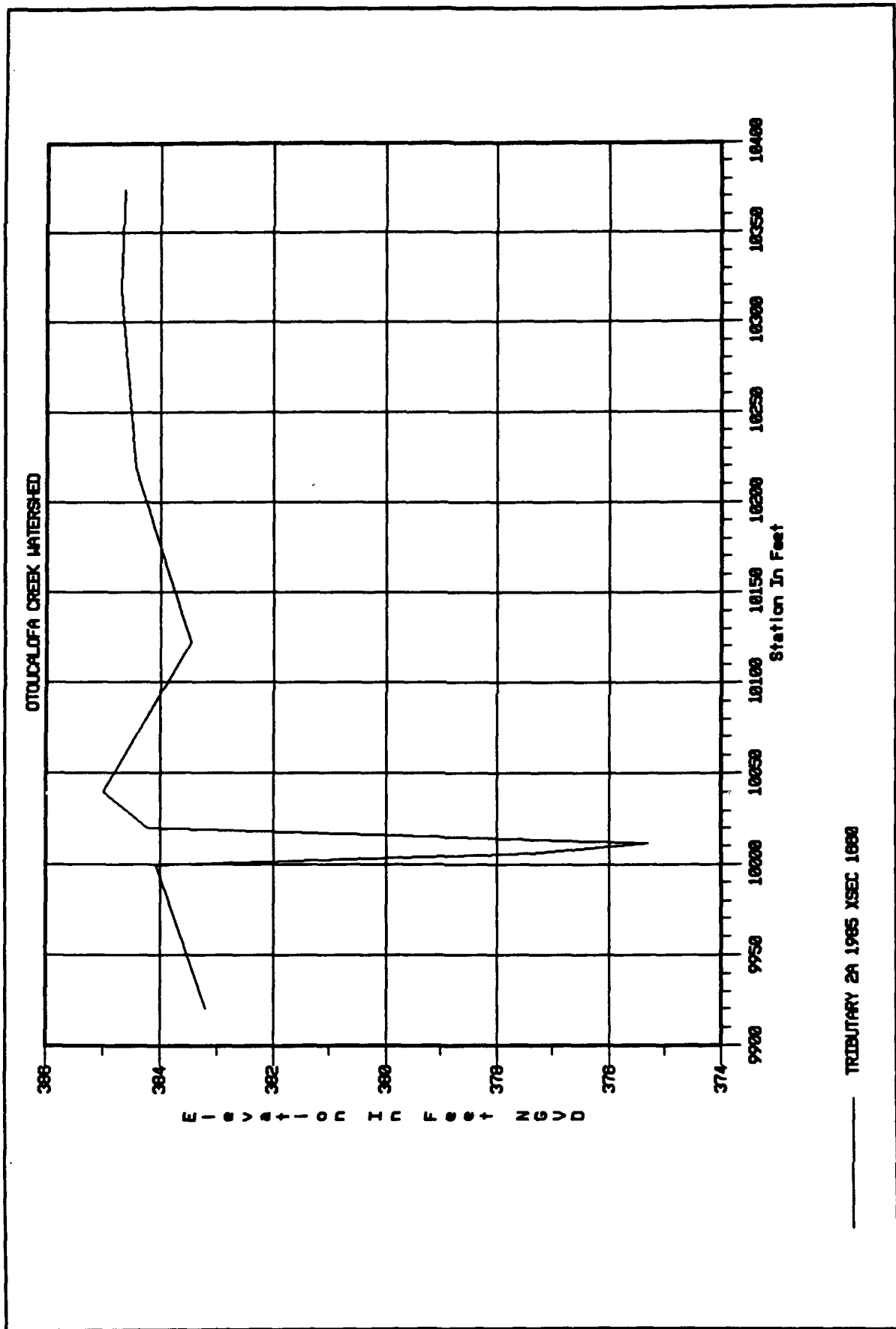
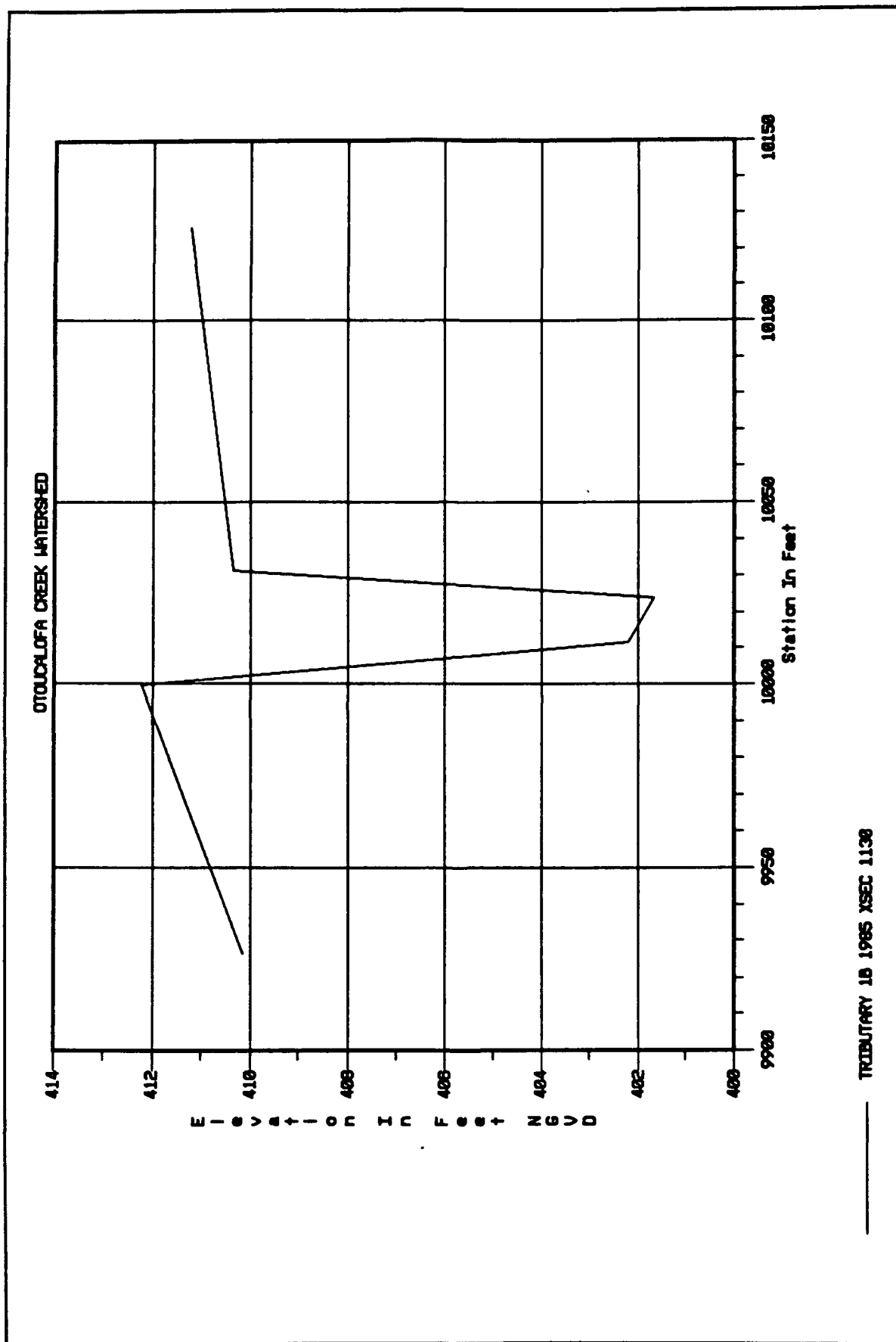
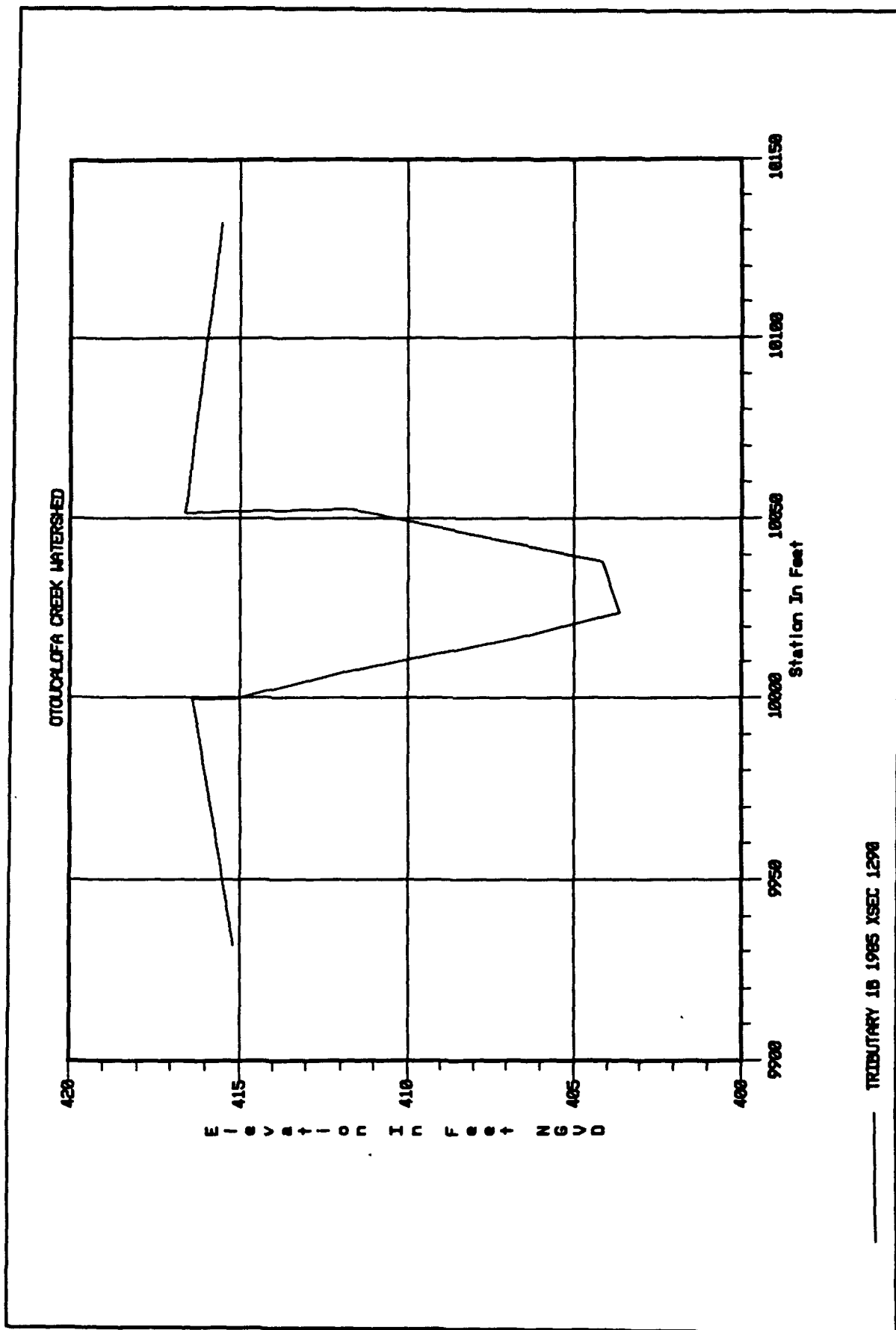


Plate C262

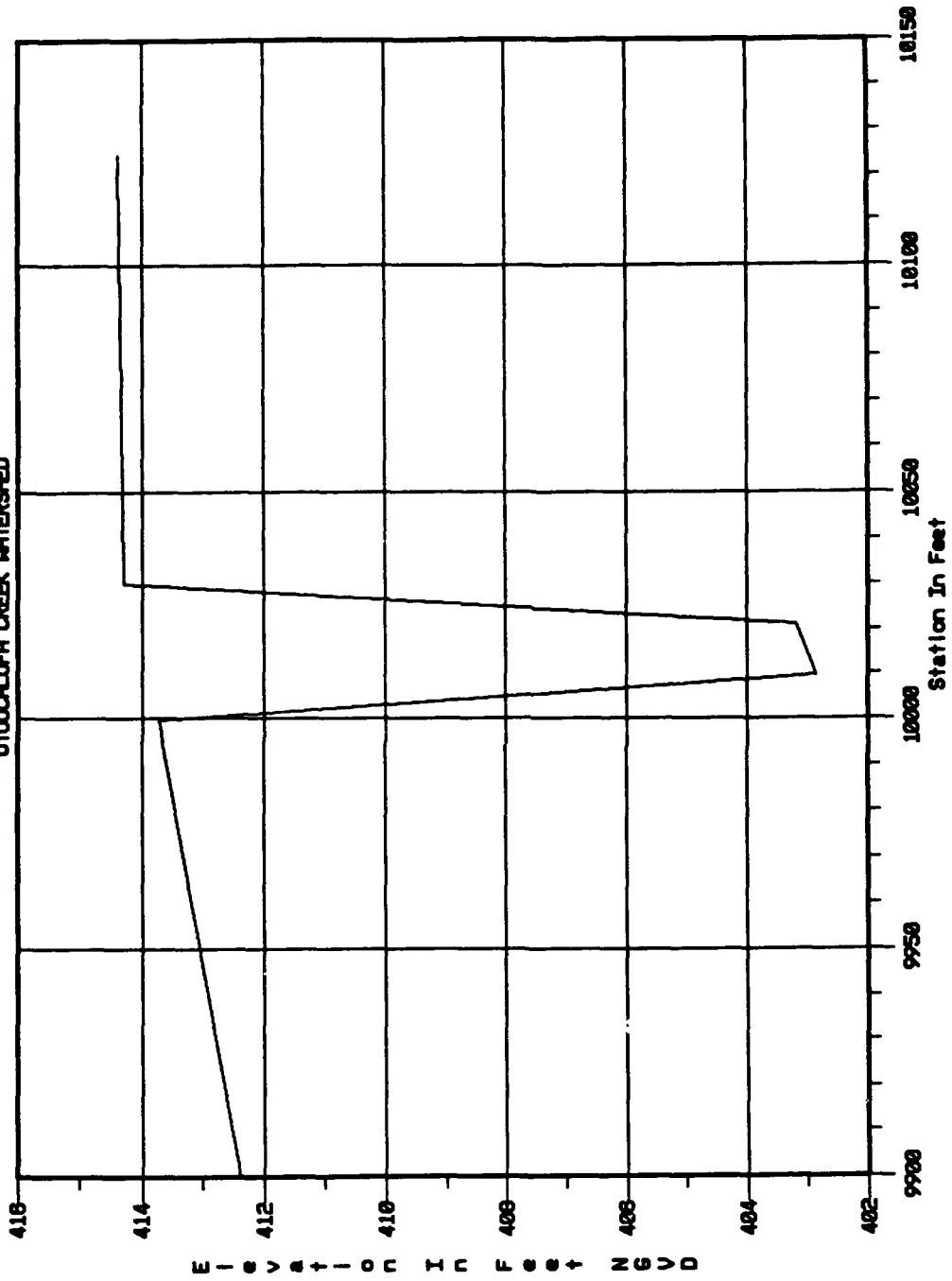




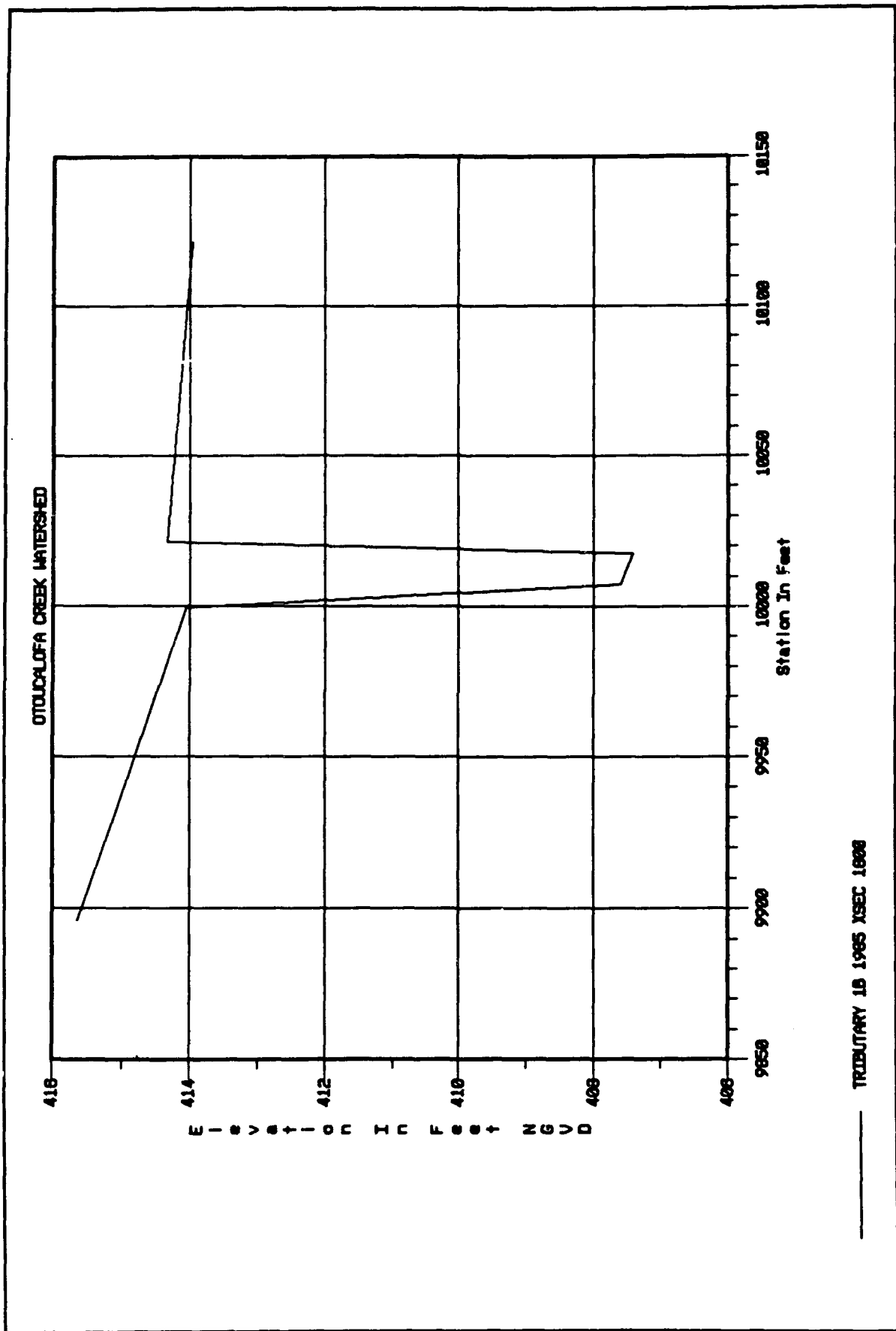


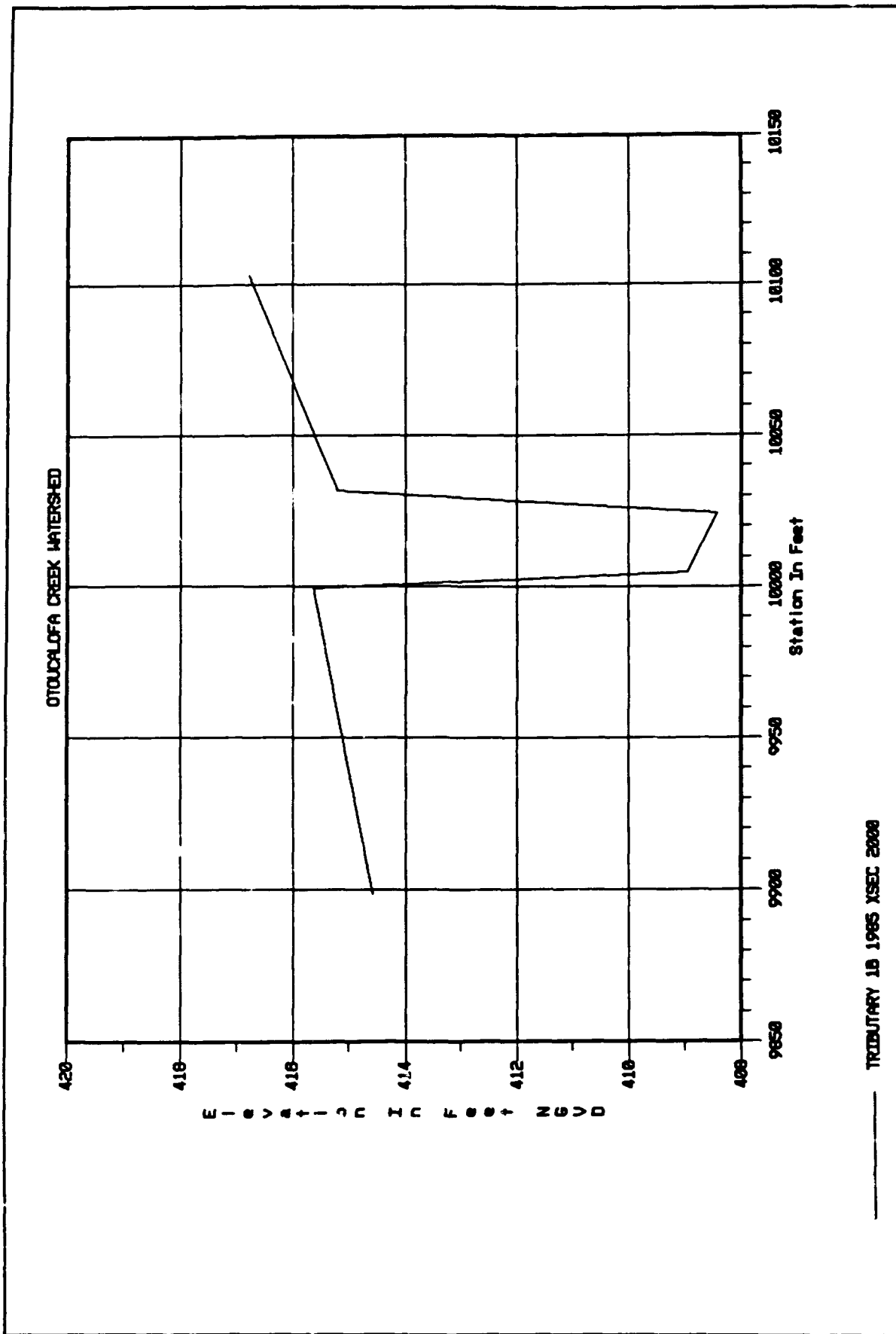


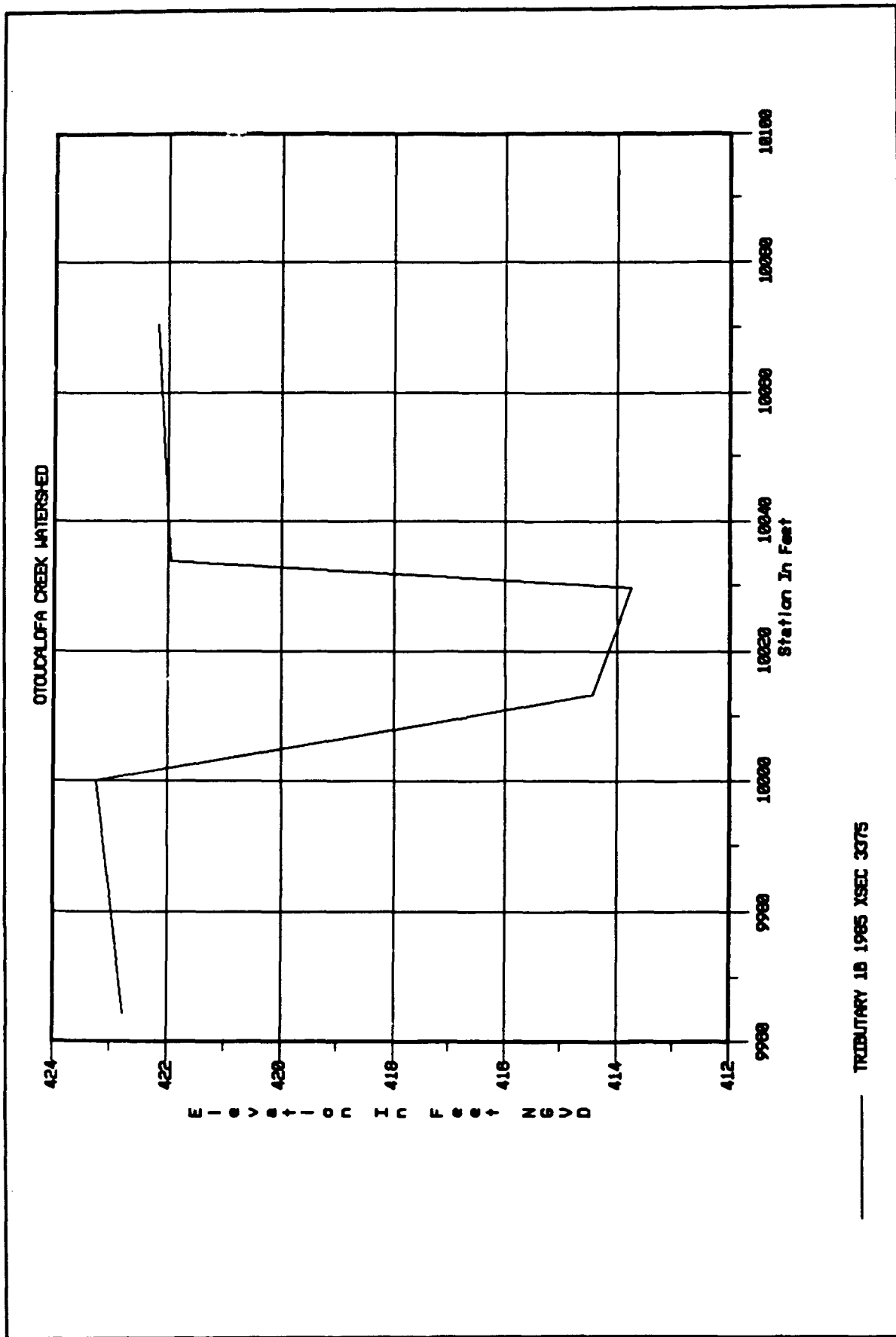
OTTOLOPFA CREEK WATERSHED



TRIBUTARY 1B 1985 XSEC 1475







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